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JOINT DISTRIBUTION OF  $\bar{X}$  AND  $X_{(n)}$  FOR A  
RANDOM SAMPLE FROM THE STANDARD  
NORMAL DISTRIBUTION WITH APPLICATIONS  
TO A VARIABLES SAMPLING INSPECTION  
PROCEDURE WHICH GUARANTEES ACCEPTANCE  
OF PERFECTLY SCREENED LOTS

JEROME D. JULIUS

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by

Jerome D. Julius

Captain, United States Air Force

Submitted in partial fulfillment of  
the requirements for the degree of

MASTER OF SCIENCE  
IN  
OPERATIONS RESEARCH

United States Naval Postgraduate School  
Monterey, California

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Jerome D. Julius

This work is accepted as fulfilling  
the thesis requirements for the degree of  
MASTER OF SCIENCE  
IN  
OPERATIONS RESEARCH  
from the

United States Naval Postgraduate School

## ABSTRACT

In this paper, tables of the joint distribution of the sample mean and the largest observation in a sample for a random sample from the standard normal distribution are presented for a variables sampling inspection procedure which guarantees acceptance of perfectly screened lots. The quality of each item in the lot is described by a single quality characteristic. It is assumed that this quality characteristic has a normal density function with known variance. Tables of standard truncated normal distribution required to compute the tables of the joint distribution of  $\bar{X}$  and  $X_{(n)}$  are also presented.

The two sets of tables are also used to show how operating characteristic curves may be computed. Sample size is shown to affect the existence of levels of significance. For small sample sizes ( $n < 10$ ), certain large levels of significance do not exist for tests of hypothesis concerning truncated normal distributions.

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# TABLE OF SYMBOLS

$H$	Null hypothesis
$H_A$	Alternative hypothesis
$\alpha$	Maximum probability that a customer is willing to risk a Type 1 error; the level of significance of the test
$P[ \ ]$	Probability that the event described in the bracket occurs
$K(\alpha)$	A constant for a given $\alpha$ , such that a test of hypotheses is performed at level $\alpha$
$X$	Quality characteristic, a random variable
$U$	Upper specification limit
$\sigma$	Standard deviation
$p$	Proportion of defective items in a lot
$p_0$	Quality standard, maximum proportion of defective items that customer is willing to accept in each lot
$K_{p_0}$	The abscissa of a standard normal density function such that area above $K_{p_0}$ is $p_0$
$\mu$	True mean of the distribution of the quality characteristic in the submitted lot
$K_\alpha$	The abscissa of a standard normal density function such that the area above $K_\alpha$ is $\alpha$
$n$	Sample size
$\bar{X}$	Sample mean
$X_{(n)}$	Largest observation in a sample of size $n$
$N(\mu, 1)$	Normal distribution with mean, $\mu$ , and standard deviation, $\sigma = 1$ .
$T_U N(\mu'', 1)$	Normal distribution with mean, $\mu''$ , and standard deviation, $\sigma'' = 1$ , truncated at upper specification limit, $U$
$L$	Lower specification limit
$X_{(1)}$	Smallest observation in a sample of size $n$



## 1. Introduction

It is often required that decisions on the acceptance or rejection of a lot of items be made on the basis of a sample drawn from the lot. Such decisions may be referred to as statistical decisions. For example, it may be required to decide on the basis of sample data whether a given lot contains a certain percent of defective items.

In attempting to reach such decisions, it is useful to make assumptions about the lot involved. Such assumptions, which may or may not be true, are called statistical hypotheses, and in general are statements about the parameters of the probability distribution of the lot's quality characteristic which is used to determine acceptance or rejection of the lot.

Often the statistical hypothesis is formulated for the sole purpose of rejecting or nullifying it. For instance, if it is required to decide whether or not a given coin is loaded, the hypothesis may be stated that the coin is a fair coin. Such hypotheses are called null hypothesis and are denoted by  $H$ .

Any hypothesis which differs from a given null hypothesis is called an alternative hypothesis. For example, the alternative hypothesis for the null hypothesis, that the coin is fair, might be, that the coin is loaded. An alternative hypothesis is denoted by  $H_A$ .

If, on the assumption that a particular hypothesis is true, it is found that the results observed in a random sample differ markedly from those expected under the hypothesis on the basis of pure chance using sampling theory, it is observed that the differences are significant



and the inference is to reject the hypothesis (or at least not to accept it on the basis of the present evidence). Procedures used to decide whether to accept or reject hypothesis or to determine whether observed samples differ significantly from expected results are called tests of hypotheses.

If a hypothesis is rejected when it should be accepted, a Type I error has been made. If, on the other hand, a hypothesis is accepted when it should be rejected, a Type II error has been made. In each case an error in judgment has occurred.

In order for any test of hypothesis to be good, it must be designed so as to minimize these errors of decision. For a given sample size, it is difficult to minimize both types of error. Any attempt to decrease one type of error is usually accompanied by an increase in the other type of error. In practice, one type of error may be more serious than the other, and so a compromise is sought in favor of a limitation of the more serious error. Both types of errors may be reduced by increasing the sample size, when this is possible. However, tests are usually designed so that they are at level  $\alpha$ , regardless of sample size.

In testing a given hypothesis, the maximum probability that the customer is willing to risk a Type I error is called the level of significance of the test. This probability is denoted by  $\alpha$  and is generally specified before any samples are drawn. Thus, the sampling results do not influence the choice of  $\alpha$ . The Type I error has been limited by properly choosing a level of significance. Type II errors may be limited by never accepting any hypotheses. This is not

practicable. In practice operating characteristic curves, or OC curves, which are graphs showing the probabilities of Type II errors under various hypotheses, are used to provide indications of how well given tests will minimize Type II errors.

Inspection for acceptance purposes is required at nearly every level of manufacturing. This inspection can be done on a sampling basis and in the case of destructive testing must of necessity be done on a sampling basis. Sampling inspection is usually classified into two general categories, sampling inspection by attributes and sampling inspection by variables. In sampling inspection by attributes, consideration is given only to the number of items in a sample which conform or fail to conform to certain design specifications. The conformance, or lack of it, may relate to a single quality characteristic but usually relates to a number of different quality characteristics. In sampling inspection by variables, variables data is taken on each quality characteristic separately. The decision to accept or reject is based on the actual measured values in the sample rather than on the number of items conforming or not conforming to the specification limits. Sampling inspection problems may be formulated in tests of hypotheses frame work.

When a lot of items is inspected by a variables sampling procedure such as suggested by Lieberman and Resnikoff [3]<sup>1</sup>, it is possible to reject the lot even though each item in the lot may have been previously inspected and all defective items discarded. Such a lot is referred to

1

Numbers in the brackets refer to the corresponding numbered references in the bibliography.

as a perfectly screened lot. The probability that a perfectly screened lot will be rejected may be small, but the cost in time and money to the customer may become excessive when production of today's weapon systems are considered.

The uniformly most powerful test procedure used to guarantee the acceptance of a perfectly screened lot has been shown [4] to be to reject the hypothesis that the percentage of defective items in the lot is less than or equal to some required quality standard, if and only if the largest observation in a sample taken from a lot is greater (less) than a given upper (lower) specification limit; and simultaneously, that the sample mean is greater than a number  $K(\alpha)$ .

This test procedure is applicable when the quality of each item in the lot is described by a single quality characteristic having a normal density function with known variance and where  $K(\alpha)$  defines the critical region for a test at level  $\alpha$ . So that  $\alpha$  (i.e.,  $K(\alpha)$ ) is a function of the joint distribution of the sample mean and the largest observation in a sample for a random sample from the standard normal distribution. To apply this test procedure successfully, truncated normal distribution tables are required and  $K(\alpha)$  for a desired level  $\alpha$  is determined by trial and error. The purpose of this paper is to eliminate the need for trial and error iterations to determine  $K(\alpha)$  for a desired level  $\alpha$ . Tables of the joint distribution of  $\bar{X}$  and  $X_{(n)}$  have been computed for 23 sample sizes and 12 truncation points. This study is limited to a single quality characteristic normally distributed with known variance. In section 2, concepts of sampling inspection by variables are discussed leading to the required modification for the inspection of a perfectly

screened lot. Section 3 is concerned with the computation of the tables of the joint distribution of  $\bar{X}$  and  $X_{(n)}$ . In section 4, applications of the tables are discussed using numerical examples. The results of the study are summarized in section 5.

The work reported on in this paper was accomplished at the United States Naval Postgraduate School, during the period from 3 January 1964 to 22 May 1964.

Professor W. M. Woods of the U.S. Naval Postgraduate School has generously given of his time to provide direction, encouragement and valuable advice to the author in the writing of this paper.



## 2. Sampling Inspection by Variables

In sampling inspection by variables, a random sample is drawn from a lot. A measurement is made of a variable quality characteristic  $X$  of each item and the decision to accept or reject the lot is a function of these measurements. There are many different ways in which the actual measured values of quality characteristics in a sample can be used to influence decisions on acceptance of a submitted lot. The following are some of the ways in which the measured values are used:

1. As a criterion in which the decision on acceptance or rejection of a lot is based on the sample mean alone. Plans using such criteria may be referred to as known standard deviation plans.
2. As a criterion in which the decision on acceptance or rejection of a lot is based on the sample mean in combination with a measure of the sample standard deviation. Plans using such criteria may be referred to as unknown standard deviation plans.
3. As a criterion in which the decision on acceptance or rejection of a lot depends in some way on the frequency distribution of the sample.
4. As a criterion in which the decision on acceptance or rejection of a process or of a series of lots is based on the evidence of a control chart for variables.

This paper is concerned with a single quality characteristic, an upper specification limit,  $U$ . It is assumed that measurements of the quality characteristic are independent, identically distributed normal random variables with known variance. The acceptance criterion is the sample mean alone in the case of an unrestricted normal distribution.

An item is considered defective if the quality characteristic is greater than the given upper specification limit. The entire lot is acceptable if the proportion of defective items,  $p$ , is less than some given quality standard  $p_0$ . The proportion  $p$  is estimated by some function of the measurements of the quality characteristic. The following hypothesis is to be tested

$$H: p \leq p_0 \quad (1.)$$

$$H_A: p > p_0 \text{ at level } \alpha$$

A procedure is required such that

$$P[\text{accept } H \mid p \leq p_0] \geq 1 - \alpha \quad (2.)$$

Using the assumption that  $X$  is normal with known variance, (2.) will be satisfied if and only if  $U \geq \mu + Kp_0\sigma$  (i.e.,  $\mu \leq U - Kp_0\sigma$ ).

An equivalent hypothesis to (1.) then is

$$H: \mu \leq U - Kp_0\sigma \quad (3.)$$

$$H_A: \mu > U - Kp_0\sigma, \text{ at level } \alpha$$

For a sample size  $n$ , the null hypothesis in (3.) would be accepted if and only if

$$\bar{X} \leq U - Kp_0\sigma + K_\alpha \frac{\sigma}{\sqrt{n}} \quad (4.)$$

or rejected if and only if

$$\bar{X} > U - Kp_0\sigma + K_\alpha \frac{\sigma}{\sqrt{n}} \quad (5.)$$

If either (4.) or (5.) is used to determine whether or not to accept a perfectly screened lot, some finite probability exists that the lot may be rejected. For example, suppose a lot of items is acceptable if the proportion of defective items does not exceed  $p_0 = .01$ . An item is defective if its quality characteristic  $Y$  exceeds  $U = 660$ . A 95% ( $\alpha = .05$ ) significance level is desired. The lot is to be inspected using a sample of size 10. The quality characteristic is normally distributed with a standard deviation of 8. Measurements of the quality characteristic on the members of the sample provide the following data:

639, 640, 650, 647, 662, 637, 652, 643, 657, 649.

The following are computed from the data and the assumptions:

$$1. \bar{Y} = 647.6$$

$$2. \int_{K_{p_0}}^{\infty} \frac{1}{\sqrt{2\pi}} e^{-z^2/2} dz = .01, \quad K_{p_0} = 2.326$$

$$3. \int_{K_{\alpha}}^{\infty} \frac{1}{\sqrt{2\pi}} e^{-t^2/2} dt = .05, \quad K_{\alpha} = 1.645$$

$$4. U = K_{p_0} \sigma + K_{\alpha} \frac{\sigma}{\sqrt{n}} = 645.55$$

Since  $\bar{Y} > 645.55$ , the lot is rejected. Now suppose that the item whose quality characteristic was measured as 662 is discarded and replaced by an item whose quality characteristic is known to have a value of 644, all other aspects of the problem remaining the same. The sample mean is

reduced to 645.8 and the lot is again rejected even though there are no defective items in the sample. The uniformly most powerful test procedure to be used to determine acceptance or rejection of the lot based on the new sample is to reject  $H$  if and only if  $X_{(n)} > Kp_0$  and  $\bar{X} > K(\alpha)$ , where in this case

$$X = \frac{Y-660}{8} + K_{.01}$$

$K(\alpha)$  is chosen so that

$$P[X_{(n)} > Kp_0, \bar{X} > K(\alpha) \mid \mu = 0] = \alpha \quad (6.)$$

The problem now is to determine  $K(\alpha)$  for a desired level  $\alpha$  test.



### 3. Computation of Tables

The level of significance of the test is computed by using expression (6.). The following equalities are noted:

$$\begin{aligned}
 P[X_{(n)} > U, \bar{X} > K(\alpha)] &= 1 - \left( P[X_{(n)} < U] + P[\bar{X} < K(\alpha)] \right. \\
 &\quad \left. - P[X_{(n)} < U, \bar{X} < K(\alpha)] \right) \\
 &= P[\bar{X} > K(\alpha)] - P[X_{(n)} < U] + P[X_{(n)} < U, \bar{X} < K(\alpha)] \\
 &= P[\bar{X} > K(\alpha)] - P[X_{(n)} < U] + P[\bar{X} < K(\alpha) | X_{(n)} < U] \\
 &\quad P[X_{(n)} < U] \\
 &= P[\bar{X} > K(\alpha)] - P[X_{(n)} < U] \left( 1 - P[\bar{X} < K(\alpha) | X_{(n)} < U] \right) \\
 &= P[\bar{X} > K(\alpha)] - P[X_{(n)} < U] P[\bar{X} > K(\alpha) | X_{(n)} < U] \quad (7.)
 \end{aligned}$$

Letting  $X$  be  $N(\mu, 1)$  and  $U = Kp_0$ , (7.) becomes

$$P[X_{(n)} > Kp_0, \bar{X} > K(\alpha)] = P[\bar{X} > K(\alpha)] - P[X_{(n)} < Kp_0] P[\bar{X} > K(\alpha) | X_{(n)} < Kp_0] \quad (8.)$$

All the items in (8.) are easily evaluated using standard normal distribution tables except the term

$$P[\bar{X} > K(\alpha) | X_{(n)} < Kp_0] \quad (9.)$$

Expression (9.) is equivalent to the probability that the sample mean of observations from a truncated normal distribution,  $T_{\mu}N(\mu, 1)$ , is greater than  $K(\alpha)$ . If standard truncated normal distribution tables are available, then for a given  $K(\alpha)$ ,  $\alpha$  may be computed after standardizing expression (8.). The standardized form of (8.), when  $X$  is  $N(\mu, 1)$  is

$$\begin{aligned}\alpha &= P \left[ \sqrt{n} (\bar{X} - \mu) > \sqrt{n} (K(\alpha) - \mu) \mid \mu = \mu \right] \\ &= P \left[ X_{(n)} - \mu < K_{p_0} - \mu \mid \mu = \mu \right] P \left[ \sqrt{n} (X - \mu) > \sqrt{n} (K(\alpha) - \mu) \mid \right. \\ &\quad \left. X_{(n)} < K_{p_0}, \mu = \mu \right] \quad (10.)\end{aligned}$$

Without loss of generality, let  $\mu = 0$  and using the information that the last term is the probability about a truncated normal distributed random variable, (10.) becomes

$$\alpha = P \left[ \sqrt{n} \bar{X} > \sqrt{n} K(\alpha) \right] - P \left[ X_{(n)} < K_{p_0} \right] P \left[ \frac{\sqrt{n} (\bar{X} - \mu'')}{\sigma''} > \frac{\sqrt{n} (K(\alpha) - \mu'')}{\sigma''} \right] \quad (11.)$$

where  $\mu''$  and  $\sigma''$  are the mean and standard deviation of the truncated normal distribution. The first two terms concern probability statements about standard normal random variables and the third term is a probability statement about a standard truncated normal distribution.  $K(\alpha)$  is found by a simultaneous manipulation of standard normal distribution tables and standard truncated normal distribution tables. This can be a tedious trial and error method. In this paper expression (11.) was programmed for a CDC 1604 computer and  $\alpha$  computed for given inputs of 23

different sample sizes, 12 truncation points, and 56 values of  $K(\alpha)$ . The required standard truncated normal distribution tables for the evaluation of the last term of (11.) were computed using Edgeworth's series (see Appendix I). The tables of truncated normal distribution were compared with the tables computed in reference [4] and found to be in agreement in three digits. The tables are presented in section 4.

#### 4. How to Use the Tables

An example will be used to illustrate a use of the tables. A lot of items is acceptable if the proportion of defective items does not exceed  $p_0 = .01$ . An item is defective if its quality characteristic  $Y$  exceeds  $U = 660$ . A 95% ( $\alpha = .05$ ) significance level is desired. The lot is inspected using a sample size of 10. The quality characteristic is normally distributed with a standard deviation of 8. Measurements of the quality characteristic on members of the sample provide the following data:

639, 640, 650, 647, 644, 637, 652, 643, 657, 649.

This is the same problem as before in section 3, but  $Y_{(n)} < U$ .

Letting  $X = \frac{Y-660}{8} + K_{.01}$ , the test procedure is to reject the lot if

and only if  $X_{(10)} > K_{.01}$  and  $\bar{X} > K(.05)$ .  $K(.05)$  is chosen so that, assuming  $X$  to be  $N(0,1)$

$$\begin{aligned} .05 &= P[\bar{X} > K(.05)] - P[X_{(10)} < K_{.01}] P[\bar{X} > K(.05) | X_{(10)} < K_{.01}] \\ &= P[\sqrt{10} \bar{X} > \sqrt{10} K(.05)] - (.99)^{10} P\left[\frac{\sqrt{10}(\bar{X} - \mu'')}{\sigma''} > \frac{\sqrt{10}(K(.05) - \mu'')}{\sigma''} \mid \right. \\ &\quad \left. X_{(10)} < K_{.01} \right] \end{aligned} \quad (12.)$$

where  $\mu''$  and  $\sigma''$  are the mean and standard deviation respectively of  $X$  when  $X$  is  $T_{K_{.01}} N(0,1)$ .

To determine  $K(.05)$ , the table of joint distribution of  $\bar{X}$  and  $X_{(n)}$

for  $p_0 = .01$  is entered with  $n = 10$  and  $\alpha = .05$  is found at the intersection of  $n = 10$  and  $KA = .24$ . In these tables  $KA = K(\alpha)$ . The lot is rejected if and only if

$$Y_{(10)} > 660 \text{ and } \bar{Y} > 643.312$$

where 
$$\bar{Y} > 660 - 8[K_{.01} - K(.05)] .$$

When this same problem was investigated in section 3, using a standard normal test, the lot was rejected if  $\bar{Y} > 645.55$ . But this time the lot is not rejected because while  $\bar{Y}$  is greater than 643.312,  $Y_{(10)}$  is less than 660. In order to reject the lot both conditions must be satisfied.

Expression (12.) can be checked by using the table of truncated normal distribution for  $p_0 = .01$  and the standard normal tables as follows:

$$P\left[\sqrt{10} \bar{X} > \sqrt{10} (.24)\right] = 1 - P\left[Z < 0.758\right] = 1 - .7764 = .2236 \quad (13.)$$

$$P\left[X_{(10)} < 2.326\right] = \left(P\left[Z < 2.326\right]\right)^{10} = (.990)^{10} = 0.905 \quad (14.)$$

$$P\left[W > \sqrt{10} \left(\frac{.24 - \mu''}{\sigma''}\right)\right] = 1 - P\left[W < \sqrt{10} \left(\frac{.24 - \mu''}{\sigma''}\right)\right] = 1 - .8074 = .1926 \quad (15.)$$

$$\alpha = .2236 - (.905) (.1926) = .05 \quad (16.)$$

where  $Z$  is  $N(0,1)$  and  $W$  is  $T_{K_{.01}} N(0,1)$



Expressions (13.) and (14.) are evaluated using standard normal distribution tables. Expression (15.) was evaluated by entering Table 3 with  $n = 10$  and  $K(\alpha) = .24$ . The tables of truncated normal distribution have been indexed on  $K(\alpha)$  to facilitate their use. The value in these tables is

$$P \left[ W < \sqrt{n} \left( \frac{K(\alpha) - \mu''}{\sigma''} \right) \middle| W \text{ is } T_U N(0,1) \right]$$

The procedures applied to an upper specification limit are equally applicable to a lower limit. For instance, suppose in the previous example, a lower specification limit,  $L$ , is of interest rather than an upper specification limit. Let  $L = -660$  and let the data gathered from the sample of size 10 be as follows:

-639, -640, -650, -647, -644, -637, -652, -643, -657, -649.

All other aspects of the problem remain the same. Let  $Y' = -Y$ , the specification limit on  $Y'$  is 660 and the problem in terms of  $Y'$  is exactly as stated previously. The lot is rejected if and only if

$$Y_{(10)} < -660 \text{ and } \bar{Y} < -643.3.$$

The tables can also be used to develop operating characteristic curves in the following manner. Select a truncation point  $Kp_0$  and a desired level  $\alpha$ , evaluate

$$P \left[ X_{(n)} > Kp_0, X > K(\alpha) \middle| \mu = \mu' \right] =$$

$$P \left[ X_{(n)} - \mu' > Kp_0 - \mu', \bar{X} - \mu' > K(\alpha) - \mu' \middle| \mu = \mu' \right] \quad (17.)$$

Letting  $Y = X - \mu'$  expression (17.) becomes

$$P[Y_{(n)} > Kp_0 - \mu', Y \mid (K(\alpha) - \mu') \mid \mu_y = 0] \quad (18.)$$

The term  $Kp_0 - \mu'$  is selected so that the difference between two truncation points used in this study was  $\mu'$ . Hence, each table of truncated normal distribution in this study has the possibility of providing a point on the OC curve for the selected  $p_0$  and  $\alpha$ . For example, if  $p_0 = .01$ ,  $\alpha = .01$ , and  $n = 3$ , the following points are computed:

<u><math>\mu'</math></u>	<u><math>K_{.01} - \mu'</math></u>	<u><math>K(.01) - \mu'</math></u>	<u><math>\alpha</math></u>
.0000	2.3263	.9920	.01
.2725	2.0538	.7195	.03
.4455	1.8808	.5465	.06
.5756	1.7507	.4164	.08
.6813	1.6450	.3107	.11
.7715	1.5548	.2205	.13
.8505	1.4758	.1415	.16
.9212	1.4051	.0708	.19
.9855	1.3408	.0065	.22
1.0477	1.2816	-.0527	>.24

Figure 1. shows the above data and also a limited portion of the OC curves for  $n = 30$  and  $n = 60$ . The curves are limited due to the number of tables computed in this study.

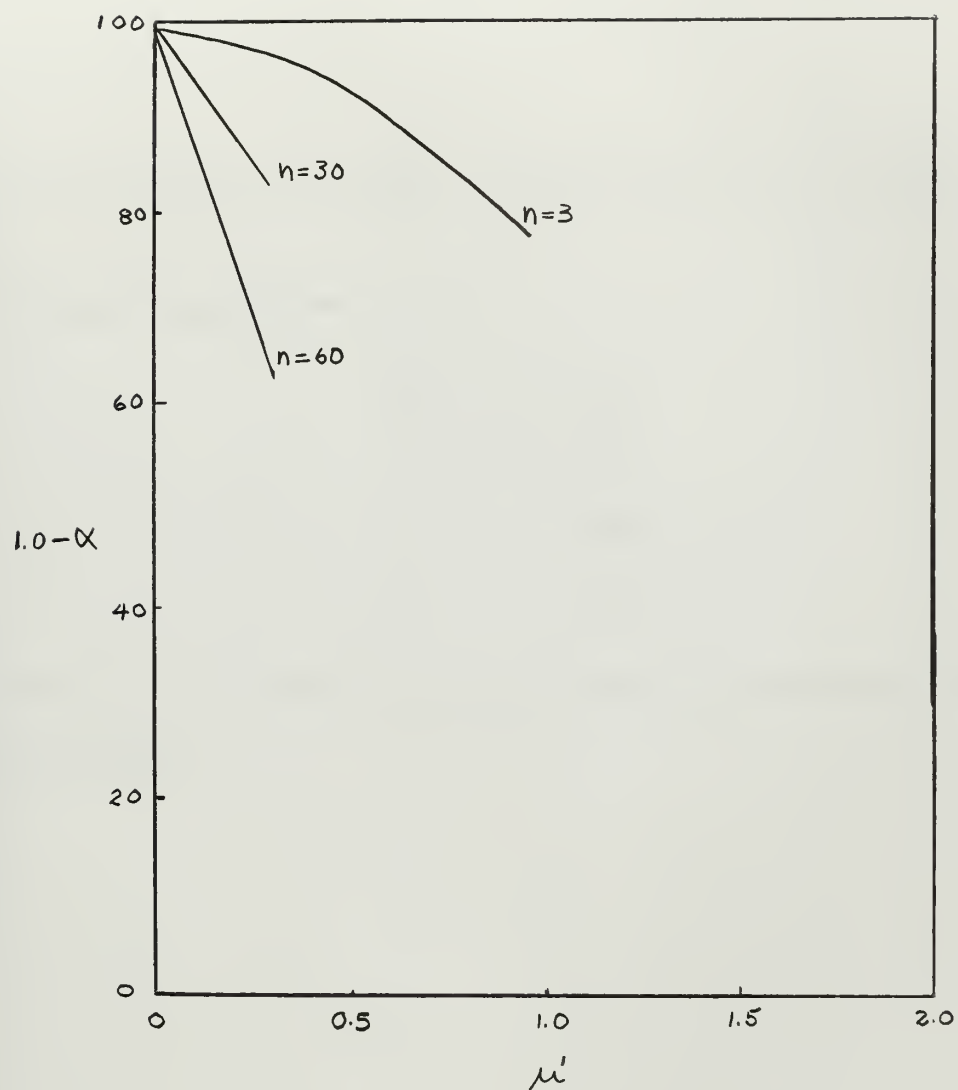


Figure 1.

OC curves for different values of  $n$  for the one sided truncated normal test for a level of significance  $\alpha = .01$  and  $p_0 = .01$



A study of Table 13 ( $p_0 = .001$ ) reveals that certain levels of significance do not exist. For instance, if  $p_0 = .001$  and it is assumed that  $K(\alpha) = -\infty$ , then

$$P[\bar{X} > -\infty] - P[X_{(n)} < K_{.001}] P[\bar{X} > -\infty | X_{(n)} < K_{.001}] = 1 - (0.999)^n$$

Letting  $n$  vary, we have

<u>n</u>	<u><math>\alpha</math></u>
1	.001
4	.004
10	.010

Hence for  $n = 10$ ,  $\alpha \leq .01$ . As  $n$  increases larger level  $\alpha$  tests can be considered.

TABLE 1  
TABLE OF TRUNCATED NORMAL DISTRIBUTION  
P0= .001

N	KA= .00	.02	.04	.06	.08	.10	.12
2.0	.5010	.5123	.5237	.5350	.5462	.5575	.5687
3.0	.5015	.5154	.5292	.5431	.5568	.5705	.5842
4.0	.5019	.5179	.5339	.5499	.5657	.5815	.5971
5.0	.5023	.5202	.5381	.5559	.5736	.5911	.6085
6.0	.5026	.5222	.5418	.5613	.5806	.5998	.6187
7.0	.5029	.5241	.5453	.5663	.5871	.6077	.6280
8.0	.5032	.5259	.5484	.5709	.5931	.6150	.6365
9.0	.5035	.5275	.5514	.5752	.5987	.6218	.6445
10.0	.5037	.5290	.5543	.5793	.6040	.6282	.6520
15.0	.5048	.5358	.5666	.5970	.6268	.6559	.6841
20.0	.5056	.5414	.5769	.6117	.6457	.6786	.7101
25.0	.5064	.5464	.5859	.6246	.6621	.6980	.7322
30.0	.5071	.5509	.5940	.6361	.6766	.7151	.7513
35.0	.5077	.5550	.6015	.6466	.6897	.7304	.7683
40.0	.5082	.5588	.6083	.6562	.7017	.7443	.7835
45.0	.5088	.5623	.6148	.6652	.7128	.7570	.7972
50.0	.5093	.5657	.6208	.6736	.7231	.7686	.8097
60.0	.5102	.5720	.6320	.6890	.7418	.7895	.8316
70.0	.5111	.5777	.6422	.7028	.7583	.8076	.8503
75.0	.5115	.5804	.6469	.7093	.7659	.8159	.8586
80.0	.5119	.5830	.6515	.7154	.7732	.8236	.8663
90.0	.5126	.5880	.6603	.7271	.7866	.8379	.8803
100.0	.5133	.5927	.6684	.7378	.7989	.8506	.8926

TABLE 1 (continued)

N	KA= .14	.16	.18	.20	.22	.24	.26
2.0	.5798	.5909	.6019	.6128	.6236	.6343	.6449
3.0	.5977	.6111	.6244	.6375	.6504	.6632	.6758
4.0	.6126	.6279	.6430	.6579	.6725	.6869	.7010
5.0	.6256	.6426	.6592	.6755	.6915	.7072	.7224
6.0	.6373	.6556	.6736	.6911	.7082	.7249	.7411
7.0	.6479	.6674	.6865	.7052	.7232	.7408	.7577
8.0	.6577	.6783	.6984	.7180	.7368	.7551	.7726
9.0	.6667	.6884	.7094	.7297	.7493	.7681	.7861
10.0	.6752	.6978	.7196	.7406	.7608	.7801	.7985
15.0	.7113	.7373	.7621	.7855	.8075	.8281	.8473
20.0	.7401	.7684	.7949	.8196	.8422	.8630	.8818
25.0	.7642	.7941	.8215	.8466	.8692	.8894	.9072
30.0	.7849	.8157	.8436	.8686	.8906	.9099	.9265
35.0	.8030	.8343	.8622	.8868	.9080	.9262	.9414
40.0	.8189	.8505	.8782	.9020	.9223	.9392	.9531
45.0	.8331	.8647	.8919	.9149	.9341	.9497	.9622
50.0	.8459	.8772	.9038	.9259	.9439	.9583	.9695
60.0	.8679	.8984	.9234	.9434	.9591	.9710	.9799
70.0	.8861	.9153	.9386	.9565	.9699	.9797	.9867
75.0	.8940	.9226	.9449	.9617	.9742	.9830	.9891
80.0	.9013	.9291	.9505	.9663	.9778	.9857	.9911
90.0	.9143	.9404	.9599	.9738	.9835	.9899	.9940
100.0	.9253	.9498	.9674	.9796	.9877	.9928	.9960

TABLE 1 (continued)

N	KA= .28	.30	.32	.34	.36	.38	.40
2.0	.6554	.6658	.6761	.6862	.6962	.7060	.7157
3.0	.6882	.7004	.7124	.7241	.7356	.7469	.7579
4.0	.7148	.7283	.7415	.7543	.7668	.7789	.7906
5.0	.7373	.7517	.7657	.7793	.7924	.8050	.8172
6.0	.7568	.7720	.7866	.8006	.8141	.8270	.8393
7.0	.7740	.7897	.8047	.8191	.8327	.8457	.8580
8.0	.7894	.8055	.8207	.8352	.8490	.8619	.8741
9.0	.8033	.8196	.8350	.8495	.8632	.8760	.8879
10.0	.8159	.8323	.8478	.8623	.8758	.8884	.9000
15.0	.8649	.8811	.8959	.9093	.9214	.9322	.9419
20.0	.8986	.9137	.9270	.9387	.9489	.9577	.9652
25.0	.9229	.9364	.9480	.9579	.9662	.9731	.9788
30.0	.9407	.9526	.9626	.9707	.9774	.9827	.9869
35.0	.9541	.9645	.9728	.9795	.9847	.9888	.9918
40.0	.9643	.9732	.9802	.9856	.9896	.9927	.9949
45.0	.9721	.9797	.9855	.9898	.9929	.9952	.9968
50.0	.9781	.9845	.9893	.9927	.9951	.9968	.9980
60.0	.9864	.9910	.9941	.9963	.9977	.9986	.9992
70.0	.9915	.9947	.9968	.9981	.9989	.9994	.9997
75.0	.9932	.9959	.9976	.9986	.9992	.9996	.9998
80.0	.9946	.9968	.9982	.9990	.9995	.9997	.9999
90.0	.9966	.9981	.9990	.9995	.9997	.9999	.9999
100.0	.9978	.9989	.9994	.9997	.9999	.9999	1.0000

TABLE 1 (continued)

N	KA= .42	.44	.46	.48	.50	.52	.54
2.0	.7252	.7346	.7438	.7528	.7617	.7704	.7789
3.0	.7686	.7791	.7892	.7991	.8087	.8181	.8271
4.0	.8020	.8130	.8236	.8338	.8436	.8531	.8621
5.0	.8289	.8400	.8507	.8609	.8707	.8799	.8887
6.0	.8510	.8622	.8727	.8827	.8921	.9010	.9093
7.0	.8696	.8806	.8909	.9005	.9095	.9179	.9257
8.0	.8855	.8961	.9060	.9152	.9237	.9316	.9388
9.0	.8990	.9093	.9188	.9275	.9355	.9427	.9493
10.0	.9107	.9206	.9296	.9378	.9452	.9519	.9580
15.0	.9504	.9579	.9645	.9701	.9751	.9793	.9829
20.0	.9716	.9770	.9815	.9852	.9883	.9907	.9928
25.0	.9834	.9871	.9901	.9925	.9943	.9958	.9969
30.0	.9902	.9927	.9947	.9961	.9972	.9980	.9986
35.0	.9941	.9959	.9971	.9980	.9986	.9991	.9994
40.0	.9965	.9976	.9984	.9990	.9993	.9996	.9997
45.0	.9979	.9986	.9991	.9995	.9997	.9998	.9999
50.0	.9987	.9992	.9995	.9997	.9998	.9999	.9999
60.0	.9995	.9997	.9998	.9999	1.0000	1.0000	1.0000
70.0	.9998	.9999	1.0000	1.0000	1.0000	1.0000	1.0000
75.0	.9999	.9999	1.0000	1.0000	1.0000	1.0000	1.0000
80.0	.9999	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
90.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

TABLE 1 (continued)

N	KA= .56	.58	.60	.62	.64	.66	.68
2.0	.7872	.7953	.8032	.8110	.8186	.8259	.8331
3.0	.8359	.8443	.8525	.8603	.8679	.8752	.8822
4.0	.8708	.8791	.8870	.8945	.9016	.9084	.9149
5.0	.8970	.9048	.9122	.9192	.9257	.9318	.9375
6.0	.9171	.9244	.9312	.9375	.9433	.9487	.9537
7.0	.9329	.9395	.9457	.9513	.9564	.9611	.9654
8.0	.9454	.9514	.9569	.9618	.9663	.9704	.9740
9.0	.9553	.9608	.9656	.9700	.9739	.9773	.9804
10.0	.9634	.9682	.9725	.9763	.9796	.9826	.9851
15.0	.9859	.9885	.9907	.9924	.9939	.9951	.9961
20.0	.9944	.9957	.9967	.9975	.9981	.9986	.9990
25.0	.9977	.9983	.9988	.9992	.9994	.9996	.9997
30.0	.9991	.9994	.9996	.9997	.9998	.9999	.9999
35.0	.9996	.9997	.9998	.9999	.9999	1.0000	1.0000
40.0	.9998	.9999	.9999	1.0000	1.0000	1.0000	1.0000
45.0	.9999	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
50.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
60.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
70.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
75.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
80.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
90.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000



TABLE 1 (continued)

N	KA= .70	.72	.74	.76	.78	.80	.82
2.0	.8401	.8469	.8534	.8598	.8661	.8721	.8779
3.0	.8889	.8954	.9015	.9074	.9131	.9185	.9236
4.0	.9210	.9267	.9321	.9373	.9421	.9466	.9508
5.0	.9429	.9479	.9525	.9568	.9608	.9644	.9678
6.0	.9583	.9625	.9664	.9699	.9731	.9760	.9787
7.0	.9693	.9728	.9760	.9789	.9814	.9837	.9858
8.0	.9773	.9802	.9828	.9851	.9871	.9889	.9904
9.0	.9831	.9855	.9876	.9894	.9910	.9923	.9935
10.0	.9874	.9893	.9910	.9924	.9937	.9947	.9956
15.0	.9970	.9976	.9981	.9985	.9989	.9991	.9993
20.0	.9992	.9994	.9996	.9997	.9998	.9999	.9999
25.0	.9998	.9999	.9999	.9999	1.0000	1.0000	1.0000
30.0	.9999	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
35.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
40.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
45.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
50.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
60.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
70.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
75.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
80.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
90.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

TABLE 1 (continued)

N	KA=	.84	.86	.88	.90	.92	.94	.96
2.0		.8835	.8890	.8942	.8993	.9042	.9089	.9135
3.0		.9284	.9331	.9375	.9416	.9456	.9493	.9528
4.0		.9548	.9585	.9619	.9651	.9681	.9709	.9735
5.0		.9709	.9738	.9764	.9788	.9810	.9830	.9848
6.0		.9811	.9833	.9852	.9870	.9885	.9899	.9912
7.0		.9876	.9892	.9906	.9919	.9930	.9940	.9948
8.0		.9918	.9930	.9940	.9949	.9957	.9964	.9970
9.0		.9946	.9954	.9962	.9968	.9974	.9978	.9982
10.0		.9964	.9970	.9975	.9980	.9984	.9987	.9989
15.0		.9995	.9996	.9997	.9998	.9998	.9999	.9999
20.0		.9999	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
25.0		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
30.0		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
35.0		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
40.0		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
45.0		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
50.0		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
60.0		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
70.0		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
75.0		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
80.0		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
90.0		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100.0		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000



TABLE 1 (continued)

N	KA=	.98	1.00	1.02	1.04	1.06	1.08	1.10
2.0	.9179	.9221	.9261	.9300	.9337	.9373	.9407	
3.0	.9562	.9593	.9623	.9650	.9676	.9701	.9724	
4.0	.9759	.9781	.9801	.9820	.9837	.9852	.9867	
5.0	.9865	.9879	.9893	.9905	.9916	.9926	.9935	
6.0	.9923	.9933	.9942	.9949	.9956	.9962	.9967	
7.0	.9956	.9962	.9968	.9973	.9977	.9980	.9984	
8.0	.9974	.9979	.9982	.9985	.9988	.9990	.9992	
9.0	.9985	.9988	.9990	.9992	.9993	.9995	.9996	
10.0	.9991	.9993	.9994	.9996	.9996	.9997	.9998	
15.0	.9999	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	
20.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	
25.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	
30.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	
35.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	
40.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	
45.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	
50.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	
60.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	
70.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	
75.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	
80.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	
90.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	
100.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	

TABLE 2  
TABLE OF TRUNCATED NORMAL DISTRIBUTION  
PO= .005

N	KA= .00	.02	.04	.06	.08	.10	.12
2.0	.5048	.5163	.5277	.5392	.5506	.5620	.5733
3.0	.5072	.5212	.5353	.5493	.5632	.5771	.5909
4.0	.5091	.5253	.5416	.5577	.5737	.5897	.6055
5.0	.5107	.5289	.5470	.5650	.5829	.6006	.6181
6.0	.5122	.5321	.5519	.5716	.5911	.6104	.6295
7.0	.5135	.5350	.5564	.5776	.5986	.6194	.6398
8.0	.5147	.5377	.5605	.5832	.6056	.6276	.6492
9.0	.5159	.5402	.5644	.5884	.6120	.6353	.6580
10.0	.5169	.5426	.5680	.5933	.6181	.6425	.6663
15.0	.5214	.5528	.5839	.6144	.6443	.6733	.7013
20.0	.5252	.5613	.5970	.6319	.6658	.6983	.7294
25.0	.5284	.5688	.6085	.6471	.6842	.7196	.7530
30.0	.5313	.5755	.6187	.6606	.7005	.7382	.7733
35.0	.5340	.5816	.6281	.6728	.7151	.7547	.7911
40.0	.5365	.5873	.6367	.6840	.7284	.7695	.8069
45.0	.5388	.5926	.6447	.6943	.7406	.7830	.8211
50.0	.5410	.5976	.6523	.7040	.7519	.7953	.8338
60.0	.5450	.6069	.6661	.7215	.7721	.8170	.8560
70.0	.5487	.6153	.6786	.7372	.7898	.8357	.8745
75.0	.5505	.6193	.6845	.7445	.7979	.8440	.8826
80.0	.5522	.6231	.6901	.7514	.8055	.8519	.8902
90.0	.5554	.6304	.7007	.7643	.8197	.8661	.9036
100.0	.5584	.6372	.7106	.7762	.8324	.8786	.9151

TABLE 2 (continued)

N	KA = .14	.16	.18	.20	.22	.24	.26
2.0	.5845	.5957	.6068	.6179	.6288	.6396	.6503
3.0	.6045	.6181	.6314	.6447	.6577	.6706	.6833
4.0	.6211	.6365	.6517	.6667	.6814	.6958	.7099
5.0	.6354	.6524	.6691	.6855	.7016	.7172	.7325
6.0	.6482	.6666	.6846	.7021	.7192	.7359	.7520
7.0	.6598	.6794	.6985	.7170	.7350	.7525	.7692
8.0	.6704	.6910	.7111	.7305	.7493	.7674	.7847
9.0	.6802	.7018	.7228	.7429	.7623	.7809	.7986
10.0	.6894	.7119	.7335	.7544	.7743	.7932	.8112
15.0	.7282	.7538	.7781	.8010	.8223	.8422	.8606
20.0	.7588	.7864	.8120	.8357	.8574	.8770	.8947
25.0	.7841	.8129	.8391	.8629	.8841	.9029	.9193
30.0	.8056	.8349	.8613	.8846	.9050	.9226	.9376
35.0	.8242	.8537	.8797	.9023	.9216	.9379	.9514
40.0	.8404	.8698	.8953	.9169	.9350	.9499	.9619
45.0	.8547	.8838	.9085	.9291	.9459	.9594	.9701
50.0	.8674	.8960	.9198	.9393	.9548	.9670	.9764
60.0	.8889	.9161	.9380	.9551	.9683	.9780	.9851
70.0	.9064	.9319	.9517	.9666	.9775	.9852	.9906
75.0	.9140	.9386	.9573	.9711	.9810	.9879	.9925
80.0	.9208	.9445	.9622	.9750	.9840	.9900	.9940
90.0	.9327	.9545	.9703	.9812	.9885	.9932	.9961
100.0	.9426	.9626	.9765	.9858	.9917	.9954	.9975

TABLE 2 (continued)

N	KA= .28	.30	.32	.34	.36	.38	.40
2.0	.6609	.6714	.6817	.6919	.7020	.7119	.7216
3.0	.6958	.7080	.7200	.7318	.7433	.7546	.7656
4.0	.7238	.7373	.7504	.7632	.7756	.7877	.7993
5.0	.7473	.7617	.7756	.7891	.8020	.8145	.8265
6.0	.7676	.7826	.7970	.8109	.8242	.8369	.8489
7.0	.7854	.8009	.8156	.8297	.8431	.8558	.8677
8.0	.8012	.8170	.8319	.8461	.8594	.8720	.8837
9.0	.8154	.8313	.8464	.8605	.8737	.8860	.8974
10.0	.8282	.8442	.8592	.8732	.8862	.8982	.9093
15.0	.8775	.8929	.9068	.9194	.9306	.9406	.9495
20.0	.9105	.9244	.9367	.9473	.9565	.9643	.9710
25.0	.9336	.9459	.9562	.9650	.9722	.9782	.9830
30.0	.9503	.9608	.9694	.9764	.9820	.9865	.9899
35.0	.9625	.9714	.9785	.9840	.9883	.9915	.9940
40.0	.9715	.9790	.9847	.9891	.9923	.9947	.9964
45.0	.9783	.9845	.9891	.9925	.9949	.9966	.9978
50.0	.9834	.9885	.9922	.9948	.9966	.9979	.9987
60.0	.9902	.9936	.9960	.9975	.9985	.9991	.9995
70.0	.9941	.9964	.9979	.9988	.9993	.9996	.9998
75.0	.9955	.9973	.9985	.9992	.9996	.9998	.9999
80.0	.9965	.9980	.9989	.9994	.9997	.9998	.9999
90.0	.9979	.9989	.9994	.9997	.9999	.9999	1.0000
100.0	.9987	.9994	.9997	.9999	.9999	1.0000	1.0000

TABLE 2 (continued)

N	KA= .42	.44	.46	.48	.50	.52	.54
2.0	.7312	.7406	.7498	.7589	.7677	.7764	.7849
3.0	.7763	.7867	.7968	.8067	.8162	.8255	.8344
4.0	.8106	.8215	.8320	.8421	.8517	.8610	.8699
5.0	.8380	.8490	.8595	.8694	.8789	.8879	.8964
6.0	.8604	.8712	.8815	.8912	.9003	.9088	.9168
7.0	.8790	.8896	.8995	.9087	.9173	.9253	.9327
8.0	.8947	.9049	.9143	.9231	.9311	.9385	.9453
9.0	.9080	.9178	.9267	.9349	.9424	.9492	.9553
10.0	.9194	.9287	.9372	.9448	.9517	.9579	.9634
15.0	.9572	.9640	.9699	.9749	.9792	.9829	.9860
20.0	.9765	.9812	.9850	.9882	.9908	.9928	.9945
25.0	.9869	.9900	.9924	.9943	.9958	.9969	.9978
30.0	.9926	.9946	.9961	.9972	.9981	.9987	.9991
35.0	.9958	.9971	.9980	.9986	.9991	.9994	.9996
40.0	.9976	.9984	.9989	.9993	.9996	.9997	.9998
45.0	.9986	.9991	.9994	.9997	.9998	.9999	.9999
50.0	.9992	.9995	.9997	.9998	.9999	.9999	1.0000
60.0	.9997	.9998	.9999	1.0000	1.0000	1.0000	1.0000
70.0	.9999	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
75.0	.9999	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
80.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
90.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

TABLE 2 (continued)

N	KA=	.56	.58	.60	.62	.64	.66	.68
2.0		.7932	.8013	.8093	.8170	.8245	.8319	.8390
3.0		.8431	.8515	.8595	.8673	.8747	.8819	.8887
4.0		.8784	.8864	.8941	.9014	.9084	.9149	.9212
5.0		.9044	.9120	.9191	.9258	.9320	.9378	.9433
6.0		.9242	.9311	.9376	.9435	.9490	.9541	.9587
7.0		.9395	.9457	.9515	.9567	.9615	.9658	.9698
8.0		.9514	.9570	.9621	.9666	.9707	.9744	.9777
9.0		.9608	.9658	.9702	.9742	.9777	.9808	.9835
10.0		.9683	.9727	.9765	.9799	.9829	.9855	.9877
15.0		.9886	.9908	.9926	.9941	.9953	.9963	.9971
20.0		.9958	.9968	.9976	.9982	.9987	.9990	.9993
25.0		.9984	.9988	.9992	.9994	.9996	.9997	.9998
30.0		.9994	.9996	.9997	.9998	.9999	.9999	1.0000
35.0		.9998	.9998	.9999	.9999	1.0000	1.0000	1.0000
40.0		.9999	.9999	1.0000	1.0000	1.0000	1.0000	1.0000
45.0		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
50.0		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
60.0		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
70.0		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
75.0		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
80.0		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
90.0		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100.0		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000



TABLE 2 (continued)

N	KA= .70	.72	.74	.76	.78	.80	.82
2.0	.8459	.8527	.8592	.8655	.8717	.8776	.8833
3.0	.8953	.9016	.9076	.9133	.9188	.9240	.9290
4.0	.9270	.9325	.9377	.9426	.9472	.9515	.9555
5.0	.9483	.9530	.9574	.9614	.9651	.9685	.9716
6.0	.9630	.9669	.9705	.9737	.9766	.9793	.9817
7.0	.9733	.9765	.9794	.9819	.9842	.9863	.9881
8.0	.9806	.9832	.9855	.9875	.9893	.9908	.9922
9.0	.9859	.9880	.9898	.9913	.9927	.9939	.9949
10.0	.9897	.9913	.9927	.9940	.9950	.9959	.9966
15.0	.9977	.9982	.9986	.9990	.9992	.9994	.9996
20.0	.9995	.9996	.9997	.9998	.9999	.9999	.9999
25.0	.9999	.9999	.9999	1.0000	1.0000	1.0000	1.0000
30.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
35.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
40.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
45.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
50.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
60.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
70.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
75.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
80.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
90.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

TABLE 2 (continued)

N	KA= .84	.86	.88	.90	.92	.94	.96
2.0	.8889	.8943	.8994	.9044	.9092	.9138	.9183
3.0	.9337	.9381	.9423	.9463	.9501	.9537	.9570
4.0	.9592	.9627	.9659	.9689	.9717	.9743	.9766
5.0	.9745	.9771	.9795	.9817	.9837	.9855	.9871
6.0	.9838	.9858	.9875	.9891	.9904	.9917	.9927
7.0	.9897	.9911	.9923	.9934	.9944	.9952	.9959
8.0	.9934	.9944	.9952	.9960	.9966	.9972	.9977
9.0	.9957	.9964	.9970	.9976	.9980	.9984	.9987
10.0	.9972	.9977	.9982	.9985	.9988	.9990	.9992
15.0	.9997	.9998	.9998	.9999	.9999	.9999	.9999
20.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
25.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
30.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
35.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
40.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
45.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
50.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
60.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
70.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
75.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
80.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
90.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

TABLE 2 (continued)

N	KA=	.98	1.00	1.02	1.04	1.06	1.08	1.10
2.0	.9226	.9267	.9306	.9344	.9380	.9414	.9447	
3.0	.9602	.9631	.9659	.9685	.9710	.9732	.9754	
4.0	.9788	.9808	.9827	.9844	.9859	.9874	.9886	
5.0	.9885	.9899	.9910	.9921	.9931	.9939	.9947	
6.0	.9937	.9946	.9953	.9959	.9965	.9970	.9974	
7.0	.9965	.9970	.9975	.9979	.9982	.9985	.9988	
8.0	.9981	.9984	.9987	.9989	.9991	.9993	.9994	
9.0	.9989	.9991	.9993	.9994	.9995	.9996	.9997	
10.0	.9994	.9995	.9996	.9997	.9998	.9998	.9999	
15.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	
20.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	
25.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	
30.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	
35.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	
40.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	
45.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	
50.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	
60.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	
70.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	
75.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	
80.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	
90.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	
100.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	

TABLE 3  
TABLE OF TRUNCATED NORMAL DISTRIBUTION  
PC= .010

N	KA= .00	.02	.04	.06	.08	.10	.12
2.0	.5096	.5213	.5329	.5445	.5560	.5675	.5790
3.0	.5142	.5284	.5426	.5568	.5709	.5849	.5988
4.0	.5178	.5342	.5506	.5669	.5831	.5992	.6151
5.0	.5208	.5392	.5575	.5757	.5938	.6116	.6292
6.0	.5235	.5437	.5637	.5836	.6032	.6226	.6418
7.0	.5260	.5477	.5693	.5907	.6118	.6327	.6531
8.0	.5282	.5514	.5745	.5973	.6198	.6419	.6635
9.0	.5303	.5549	.5793	.6034	.6272	.6504	.6732
10.0	.5322	.5581	.5838	.6092	.6341	.6585	.6822
15.0	.5406	.5722	.6034	.6340	.6637	.6925	.7202
20.0	.5475	.5839	.6196	.6544	.6879	.7199	.7503
25.0	.5535	.5941	.6337	.6719	.7085	.7430	.7753
30.0	.5589	.6032	.6462	.6874	.7265	.7629	.7966
35.0	.5639	.6115	.6575	.7014	.7425	.7805	.8151
40.0	.5684	.6192	.6680	.7141	.7570	.7961	.8313
45.0	.5727	.6263	.6776	.7258	.7701	.8102	.8456
50.0	.5767	.6330	.6866	.7366	.7822	.8229	.8584
60.0	.5842	.6454	.7031	.7561	.8036	.8451	.8803
70.0	.5910	.6566	.7179	.7734	.8222	.8638	.8982
75.0	.5942	.6619	.7247	.7813	.8305	.8720	.9059
80.0	.5973	.6669	.7313	.7888	.8384	.8797	.9130
90.0	.6032	.6765	.7436	.8027	.8527	.8934	.9254
100.0	.6087	.6855	.7549	.8153	.8654	.9053	.9358

TABLE 3 (continued)

N	KA= .14	.16	.18	.20	.22	.24	.26
2.0	.5904	.6017	.6129	.6240	.6351	.6460	.6568
3.0	.6126	.6263	.6398	.6531	.6662	.6792	.6919
4.0	.6309	.6464	.6617	.6767	.6915	.7059	.7201
5.0	.6466	.6637	.6804	.6968	.7129	.7285	.7437
6.0	.6606	.6790	.6969	.7145	.7315	.7480	.7640
7.0	.6732	.6927	.7117	.7302	.7481	.7653	.7819
8.0	.6847	.7052	.7252	.7444	.7630	.7808	.7978
9.0	.6953	.7168	.7375	.7574	.7765	.7947	.8120
10.0	.7052	.7275	.7489	.7693	.7889	.8074	.8249
15.0	.7466	.7717	.7953	.8174	.8380	.8570	.8745
20.0	.7789	.8055	.8301	.8526	.8730	.8914	.9078
25.0	.8052	.8326	.8573	.8795	.8992	.9164	.9313
30.0	.8273	.8548	.8793	.9007	.9192	.9350	.9483
35.0	.8461	.8734	.8972	.9176	.9348	.9491	.9608
40.0	.8623	.8892	.9121	.9313	.9471	.9599	.9701
45.0	.8764	.9027	.9246	.9425	.9570	.9683	.9771
50.0	.8888	.9143	.9351	.9518	.9648	.9749	.9824
60.0	.9095	.9330	.9516	.9657	.9763	.9840	.9895
70.0	.9258	.9473	.9636	.9755	.9839	.9898	.9937
75.0	.9327	.9532	.9683	.9792	.9867	.9918	.9951
80.0	.9389	.9583	.9724	.9823	.9890	.9934	.9962
90.0	.9494	.9669	.9791	.9872	.9925	.9957	.9977
100.0	.9581	.9736	.9840	.9907	.9948	.9972	.9986

TABLE 3 (continued)

N	KA= .28	.30	.32	.34	.36	.38	.40
2.0	.6675	.6780	.6885	.6987	.7088	.7188	.7286
3.0	.7045	.7167	.7288	.7406	.7521	.7633	.7743
4.0	.7339	.7473	.7604	.7732	.7855	.7975	.8090
5.0	.7584	.7727	.7865	.7998	.8126	.8249	.8366
6.0	.7794	.7943	.8085	.8221	.8351	.8475	.8592
7.0	.7978	.8130	.8274	.8412	.8542	.8664	.8780
8.0	.8140	.8293	.8439	.8576	.8705	.8826	.8938
9.0	.8284	.8439	.8584	.8720	.8846	.8964	.9073
10.0	.8414	.8568	.8712	.8846	.8970	.9083	.9188
15.0	.8904	.9048	.9178	.9294	.9397	.9488	.9568
20.0	.9223	.9350	.9461	.9556	.9637	.9706	.9763
25.0	.9441	.9549	.9640	.9715	.9777	.9827	.9867
30.0	.9593	.9684	.9757	.9816	.9862	.9897	.9925
35.0	.9702	.9776	.9835	.9879	.9913	.9939	.9957
40.0	.9780	.9841	.9887	.9921	.9945	.9963	.9975
45.0	.9837	.9886	.9922	.9947	.9965	.9977	.9986
50.0	.9879	.9918	.9946	.9965	.9978	.9986	.9992
60.0	.9932	.9957	.9974	.9984	.9991	.9995	.9997
70.0	.9962	.9978	.9987	.9993	.9996	.9998	.9999
75.0	.9971	.9984	.9991	.9995	.9998	.9999	.9999
80.0	.9978	.9988	.9994	.9997	.9998	.9999	1.0000
90.0	.9988	.9994	.9997	.9999	.9999	1.0000	1.0000
100.0	.9993	.9997	.9998	.9999	1.0000	1.0000	1.0000



TABLE 3 (continued)

N	KA= .42	.44	.46	.48	.50	.52	.54
2.0	.7382	.7477	.7569	.7660	.7749	.7836	.7921
3.0	.7850	.7954	.8054	.8152	.8247	.8338	.8427
4.0	.8202	.8309	.8412	.8511	.8606	.8697	.8783
5.0	.8479	.8586	.8688	.8785	.8877	.8964	.9046
6.0	.8703	.8808	.8907	.9000	.9088	.9169	.9245
7.0	.8888	.8990	.9084	.9172	.9254	.9329	.9398
8.0	.9043	.9140	.9229	.9311	.9386	.9455	.9518
9.0	.9173	.9264	.9348	.9424	.9494	.9556	.9612
10.0	.9283	.9369	.9447	.9518	.9581	.9637	.9687
15.0	.9638	.9698	.9749	.9793	.9831	.9862	.9888
20.0	.9811	.9850	.9882	.9908	.9929	.9946	.9959
25.0	.9899	.9924	.9944	.9958	.9970	.9978	.9984
30.0	.9946	.9961	.9973	.9981	.9987	.9991	.9994
35.0	.9970	.9980	.9987	.9991	.9994	.9996	.9998
40.0	.9984	.9990	.9993	.9996	.9997	.9998	.9999
45.0	.9991	.9995	.9997	.9998	.9999	.9999	1.0000
50.0	.9995	.9997	.9998	.9999	.9999	1.0000	1.0000
60.0	.9998	.9999	1.0000	1.0000	1.0000	1.0000	1.0000
70.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
75.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
80.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
90.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

TABLE 3 (continued)

N	KA= .56	.58	.60	.62	.64	.66	.68
2.0	.8004	.8085	.8164	.8241	.8316	.8389	.8460
3.0	.8512	.8594	.8674	.8750	.8823	.8893	.8959
4.0	.8866	.8944	.9019	.9089	.9156	.9219	.9278
5.0	.9123	.9195	.9263	.9326	.9386	.9441	.9492
6.0	.9315	.9381	.9441	.9497	.9548	.9595	.9638
7.0	.9462	.9520	.9573	.9621	.9665	.9704	.9740
8.0	.9574	.9626	.9672	.9713	.9750	.9783	.9812
9.0	.9662	.9707	.9747	.9782	.9813	.9840	.9864
10.0	.9731	.9770	.9804	.9833	.9859	.9881	.9901
15.0	.9910	.9928	.9943	.9955	.9965	.9973	.9979
20.0	.9969	.9977	.9983	.9987	.9991	.9993	.9995
25.0	.9989	.9992	.9995	.9996	.9998	.9998	.9999
30.0	.9996	.9997	.9998	.9999	.9999	1.0000	1.0000
35.0	.9999	.9999	.9999	1.0000	1.0000	1.0000	1.0000
40.0	.9999	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
45.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
50.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
60.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
70.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
75.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
80.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
90.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

TABLE 3 (continued)

N	KA= .70	.72	.74	.76	.78	.80	.82
2.0	.8528	.8595	.8660	.8722	.8783	.8841	.8898
3.0	.9023	.9085	.9143	.9198	.9251	.9301	.9349
4.0	.9334	.9387	.9436	.9483	.9526	.9566	.9603
5.0	.9539	.9583	.9623	.9660	.9694	.9725	.9754
6.0	.9677	.9713	.9745	.9774	.9801	.9824	.9846
7.0	.9772	.9801	.9826	.9849	.9869	.9887	.9902
8.0	.9838	.9861	.9881	.9898	.9913	.9926	.9938
9.0	.9884	.9902	.9918	.9931	.9942	.9952	.9960
10.0	.9917	.9931	.9943	.9953	.9961	.9968	.9974
15.0	.9984	.9987	.9990	.9993	.9995	.9996	.9997
20.0	.9997	.9998	.9998	.9999	.9999	.9999	1.0000
25.0	.9999	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
30.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
35.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
40.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
45.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
50.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
60.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
70.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
75.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
80.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
90.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

TABLE 3 (continued)

N	KA= .84	.86	.88	.90	.92	.94	.96
2.0	.8952	.9005	.9056	.9104	.9151	.9196	.9239
3.0	.9393	.9436	.9476	.9514	.9550	.9583	.9615
4.0	.9638	.9670	.9700	.9728	.9753	.9777	.9798
5.0	.9780	.9804	.9825	.9845	.9862	.9878	.9892
6.0	.9865	.9882	.9897	.9910	.9922	.9933	.9942
7.0	.9916	.9928	.9938	.9948	.9955	.9962	.9968
8.0	.9947	.9956	.9963	.9969	.9974	.9979	.9982
9.0	.9967	.9973	.9978	.9982	.9985	.9988	.9990
10.0	.9979	.9983	.9986	.9989	.9991	.9993	.9995
15.0	.9998	.9998	.9999	.9999	.9999	1.0000	1.0000
20.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
25.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
30.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
35.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
40.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
45.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
50.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
60.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
70.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
75.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
80.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
90.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

TABLE 3 (continued)

N	KA= .98	1.00	1.02	1.04	1.06	1.08	1.10
2.0	.9281	.9321	.9359	.9395	.9430	.9463	.9494
3.0	.9644	.9672	.9698	.9722	.9745	.9766	.9785
4.0	.9818	.9836	.9853	.9868	.9882	.9894	.9905
5.0	.9905	.9917	.9927	.9936	.9944	.9951	.9957
6.0	.9950	.9957	.9963	.9968	.9973	.9977	.9981
7.0	.9973	.9978	.9981	.9984	.9987	.9989	.9991
8.0	.9986	.9988	.9990	.9992	.9994	.9995	.9996
9.0	.9992	.9994	.9995	.9996	.9997	.9998	.9998
10.0	.9996	.9997	.9997	.9998	.9998	.9999	.9999
15.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
20.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
25.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
30.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
35.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
40.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
45.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
50.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
60.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
70.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
75.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
80.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
90.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000



TABLE 4  
TABLE OF TRUNCATED NORMAL DISTRIBUTION  
PC= .020

N	KA= .00	.02	.04	.06	.08	.10	.12
2.0	.5196	.5315	.5434	.5552	.5669	.5787	.5903
3.0	.5281	.5426	.5571	.5715	.5859	.6001	.6142
4.0	.5347	.5515	.5682	.5847	.6012	.6175	.6336
5.0	.5403	.5591	.5777	.5961	.6144	.6324	.6502
6.0	.5453	.5658	.5861	.6062	.6261	.6456	.6648
7.0	.5498	.5719	.5937	.6154	.6366	.6575	.6780
8.0	.5539	.5775	.6008	.6238	.6463	.6684	.6900
9.0	.5577	.5827	.6073	.6316	.6553	.6785	.7010
10.0	.5613	.5875	.6134	.6389	.6637	.6879	.7113
15.0	.5767	.6085	.6397	.6700	.6993	.7273	.7540
20.0	.5894	.6258	.6612	.6952	.7277	.7584	.7871
25.0	.6004	.6407	.6796	.7166	.7515	.7840	.8139
30.0	.6102	.6540	.6958	.7352	.7720	.8057	.8362
35.0	.6192	.6660	.7103	.7518	.7899	.8244	.8551
40.0	.6274	.6770	.7236	.7667	.8058	.8407	.8712
45.0	.6351	.6871	.7357	.7802	.8200	.8551	.8853
50.0	.6423	.6966	.7469	.7925	.8329	.8679	.8975
60.0	.6556	.7139	.7670	.8143	.8552	.8895	.9176
70.0	.6676	.7293	.7847	.8330	.8738	.9070	.9334
75.0	.6732	.7364	.7928	.8414	.8820	.9146	.9400
80.0	.6786	.7432	.8005	.8493	.8895	.9214	.9458
90.0	.6887	.7560	.8146	.8636	.9030	.9333	.9558
100.0	.6982	.7677	.8274	.8762	.9146	.9433	.9638



TABLE 4 (continued)

N	KA= .14	.16	.18	.20	.22	.24	.26
2.0	.6019	.6134	.6249	.6362	.6474	.6585	.6694
3.0	.6282	.6420	.6557	.6691	.6824	.6954	.7083
4.0	.6495	.6651	.6805	.6955	.7103	.7247	.7388
5.0	.6676	.6847	.7015	.7178	.7337	.7492	.7642
6.0	.6836	.7019	.7198	.7371	.7539	.7701	.7858
7.0	.6979	.7173	.7361	.7542	.7717	.7885	.8045
8.0	.7109	.7312	.7507	.7695	.7875	.8047	.8210
9.0	.7229	.7439	.7641	.7834	.8017	.8192	.8356
10.0	.7339	.7556	.7763	.7960	.8146	.8322	.8487
15.0	.7793	.8031	.8252	.8458	.8647	.8819	.8976
20.0	.8138	.8383	.8606	.8806	.8989	.9148	.9289
25.0	.8411	.8656	.8875	.9066	.9233	.9376	.9498
30.0	.8634	.8874	.9083	.9262	.9413	.9538	.9642
35.0	.8819	.9051	.9248	.9412	.9547	.9656	.9742
40.0	.8975	.9197	.9380	.9529	.9648	.9742	.9813
45.0	.9107	.9317	.9487	.9622	.9726	.9805	.9864
50.0	.9220	.9418	.9574	.9695	.9786	.9853	.9901
60.0	.9400	.9573	.9704	.9800	.9868	.9915	.9947
70.0	.9536	.9685	.9793	.9867	.9918	.9950	.9971
75.0	.9590	.9729	.9826	.9892	.9935	.9962	.9979
80.0	.9638	.9766	.9854	.9912	.9948	.9971	.9984
90.0	.9717	.9826	.9896	.9941	.9967	.9983	.9991
100.0	.9778	.9869	.9926	.9960	.9979	.9990	.9995

TABLE 4 (continued)

N	KA= .28	.30	.32	.34	.36	.38	.40
2.0	.6803	.6910	.7015	.7119	.7221	.7321	.7420
3.0	.7208	.7331	.7452	.7569	.7684	.7796	.7904
4.0	.7526	.7659	.7788	.7914	.8035	.8152	.8265
5.0	.7787	.7927	.8061	.8190	.8314	.8433	.8546
6.0	.8008	.8151	.8288	.8419	.8543	.8661	.8771
7.0	.8198	.8343	.8481	.8611	.8734	.8848	.8956
8.0	.8364	.8510	.8647	.8775	.8894	.9005	.9108
9.0	.8511	.8655	.8790	.8916	.9031	.9138	.9236
10.0	.8641	.8784	.8916	.9038	.9149	.9251	.9343
15.0	.9117	.9243	.9355	.9454	.9541	.9616	.9681
20.0	.9411	.9516	.9605	.9681	.9744	.9797	.9840
25.0	.9600	.9684	.9754	.9810	.9855	.9890	.9918
30.0	.9725	.9792	.9845	.9885	.9917	.9940	.9957
35.0	.9810	.9862	.9901	.9930	.9952	.9967	.9978
40.0	.9867	.9907	.9937	.9957	.9972	.9982	.9988
45.0	.9907	.9938	.9959	.9974	.9983	.9990	.9994
50.0	.9935	.9958	.9973	.9984	.9990	.9994	.9997
60.0	.9967	.9981	.9989	.9994	.9997	.9998	.9999
70.0	.9984	.9991	.9995	.9998	.9999	.9999	1.0000
75.0	.9988	.9994	.9997	.9998	.9999	1.0000	1.0000
80.0	.9992	.9996	.9998	.9999	1.0000	1.0000	1.0000
90.0	.9996	.9998	.9999	1.0000	1.0000	1.0000	1.0000
100.0	.9998	.9999	1.0000	1.0000	1.0000	1.0000	1.0000

TABLE 4 (continued)

N	KA= .42	.44	.46	.48	.50	.52	.54
2.0	.7517	.7612	.7705	.7796	.7884	.7971	.8056
3.0	.8010	.8112	.8211	.8307	.8400	.8489	.8575
4.0	.8373	.8477	.8576	.8671	.8762	.8849	.8931
5.0	.8653	.8755	.8852	.8943	.9029	.9110	.9185
6.0	.8876	.8974	.9066	.9151	.9231	.9305	.9373
7.0	.9056	.9149	.9235	.9314	.9387	.9453	.9514
8.0	.9203	.9290	.9370	.9442	.9508	.9568	.9621
9.0	.9325	.9406	.9479	.9545	.9604	.9657	.9704
10.0	.9426	.9501	.9568	.9627	.9680	.9726	.9767
15.0	.9737	.9784	.9824	.9858	.9886	.9909	.9928
20.0	.9875	.9903	.9926	.9944	.9958	.9968	.9977
25.0	.9939	.9956	.9968	.9977	.9984	.9989	.9992
30.0	.9970	.9979	.9986	.9991	.9994	.9996	.9997
35.0	.9985	.9990	.9994	.9996	.9998	.9999	.9999
40.0	.9993	.9995	.9997	.9998	.9999	.9999	1.0000
45.0	.9996	.9998	.9999	.9999	1.0000	1.0000	1.0000
50.0	.9998	.9999	.9999	1.0000	1.0000	1.0000	1.0000
60.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
70.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
75.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
80.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
90.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

TABLE 4 (continued)

N	KA= .56	.58	.60	.62	.64	.66	.68
2.0	.8139	.8219	.8298	.8374	.8448	.8520	.8589
3.0	.8658	.8738	.8814	.8887	.8957	.9023	.9087
4.0	.9009	.9082	.9152	.9218	.9279	.9337	.9392
5.0	.9256	.9322	.9384	.9441	.9494	.9543	.9588
6.0	.9436	.9495	.9548	.9596	.9641	.9681	.9718
7.0	.9570	.9620	.9665	.9706	.9743	.9776	.9805
8.0	.9670	.9713	.9751	.9785	.9815	.9841	.9864
9.0	.9745	.9782	.9814	.9842	.9866	.9887	.9905
10.0	.9803	.9834	.9860	.9883	.9903	.9919	.9934
15.0	.9943	.9955	.9965	.9973	.9979	.9984	.9988
20.0	.9983	.9988	.9991	.9994	.9995	.9997	.9998
25.0	.9995	.9996	.9998	.9998	.9999	.9999	1.0000
30.0	.9998	.9999	.9999	1.0000	1.0000	1.0000	1.0000
35.0	.9999	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
40.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
45.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
50.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
60.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
70.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
75.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
80.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
90.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

TABLE 4 (continued)

N	KA= .70	.72	.74	.76	.78	.80	.82
2.0	.8657	.8722	.8785	.8846	.8904	.8961	.9016
3.0	.9147	.9204	.9259	.9311	.9360	.9406	.9449
4.0	.9443	.9490	.9535	.9576	.9614	.9649	.9682
5.0	.9630	.9668	.9702	.9734	.9763	.9789	.9813
6.0	.9751	.9781	.9807	.9831	.9853	.9872	.9889
7.0	.9831	.9854	.9874	.9892	.9908	.9921	.9933
8.0	.9885	.9902	.9917	.9930	.9942	.9951	.9959
9.0	.9921	.9934	.9945	.9955	.9963	.9970	.9975
10.0	.9945	.9955	.9964	.9971	.9976	.9981	.9985
15.0	.9991	.9993	.9995	.9996	.9997	.9998	.9999
20.0	.9998	.9999	.9999	1.0000	1.0000	1.0000	1.0000
25.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
30.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
35.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
40.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
45.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
50.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
60.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
70.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
75.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
80.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
90.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

TABLE 4 (continued)

N	KA= .84	.86	.88	.90	.92	.94	.96
2.0	.9068	.9118	.9167	.9213	.9257	.9300	.9341
3.0	.9490	.9529	.9565	.9599	.9631	.9661	.9689
4.0	.9712	.9740	.9766	.9789	.9810	.9830	.9848
5.0	.9834	.9854	.9871	.9887	.9901	.9913	.9924
6.0	.9903	.9917	.9928	.9938	.9947	.9955	.9962
7.0	.9943	.9952	.9960	.9966	.9972	.9976	.9980
8.0	.9966	.9972	.9977	.9981	.9985	.9987	.9990
9.0	.9980	.9984	.9987	.9990	.9992	.9993	.9995
10.0	.9988	.9990	.9993	.9994	.9995	.9996	.9997
15.0	.9999	.9999	1.0000	1.0000	1.0000	1.0000	1.0000
20.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
25.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
30.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
35.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
40.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
45.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
50.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
60.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
70.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
75.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
80.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
90.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000



TABLE 4 (continued)

N	KA= .98	1.00	1.02	1.04	1.06	1.08	1.10
2.0	.9379	.9416	.9452	.9485	.9517	.9548	.9577
3.0	.9714	.9739	.9761	.9782	.9801	.9819	.9835
4.0	.9864	.9879	.9892	.9904	.9915	.9925	.9933
5.0	.9934	.9942	.9950	.9957	.9963	.9968	.9972
6.0	.9967	.9972	.9977	.9980	.9983	.9986	.9988
7.0	.9984	.9987	.9989	.9991	.9993	.9994	.9995
8.0	.9992	.9993	.9995	.9996	.9997	.9997	.9998
9.0	.9996	.9997	.9997	.9998	.9998	.9999	.9999
10.0	.9998	.9998	.9999	.9999	.9999	.9999	1.0000
15.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
20.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
25.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
30.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
35.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
40.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
45.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
50.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
60.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
70.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
75.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
80.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
90.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

TABLE 5  
TABLE OF TRUNCATED NORMAL DISTRIBUTION  
PO= .030

N	KA= .00	.02	.04	.06	.08	.10	.12
2.0	.5298	.5419	.5540	.5660	.5779	.5898	.6017
3.0	.5419	.5566	.5713	.5860	.6005	.6149	.6292
4.0	.5513	.5683	.5853	.6020	.6186	.6351	.6513
5.0	.5593	.5783	.5971	.6158	.6341	.6522	.6700
6.0	.5664	.5871	.6076	.6279	.6478	.6673	.6865
7.0	.5728	.5951	.6171	.6388	.6601	.6809	.7012
8.0	.5786	.6024	.6258	.6488	.6713	.6933	.7145
9.0	.5841	.6092	.6339	.6581	.6817	.7046	.7268
10.0	.5892	.6155	.6414	.6667	.6913	.7151	.7381
15.0	.6110	.6427	.6735	.7032	.7317	.7588	.7843
20.0	.6288	.6648	.6994	.7323	.7633	.7923	.8192
25.0	.6442	.6837	.7212	.7565	.7893	.8194	.8467
30.0	.6579	.7003	.7403	.7773	.8112	.8418	.8690
35.0	.6702	.7152	.7571	.7955	.8301	.8607	.8874
40.0	.6815	.7287	.7722	.8116	.8465	.8769	.9028
45.0	.6919	.7411	.7859	.8259	.8609	.8908	.9158
50.0	.7017	.7525	.7984	.8388	.8736	.9029	.9268
60.0	.7193	.7730	.8204	.8611	.8951	.9227	.9444
70.0	.7351	.7909	.8392	.8796	.9124	.9380	.9574
75.0	.7424	.7991	.8477	.8878	.9198	.9444	.9626
80.0	.7493	.8068	.8555	.8953	.9265	.9500	.9672
90.0	.7623	.8211	.8698	.9085	.9380	.9596	.9746
100.0	.7742	.8339	.8823	.9199	.9476	.9672	.9803

TABLE 5 (continued)

N	KA= .14	.16	.18	.20	.22	.24	.26
2.0	.6135	.6251	.6367	.6482	.6595	.6707	.6818
3.0	.6433	.6573	.6710	.6846	.6979	.7109	.7238
4.0	.6672	.6829	.6983	.7133	.7280	.7424	.7564
5.0	.6875	.7045	.7212	.7374	.7531	.7683	.7830
6.0	.7052	.7233	.7410	.7580	.7745	.7903	.8055
7.0	.7209	.7400	.7584	.7761	.7931	.8093	.8248
8.0	.7351	.7550	.7740	.7922	.8096	.8260	.8415
9.0	.7481	.7686	.7881	.8067	.8242	.8408	.8563
10.0	.7600	.7810	.8009	.8197	.8374	.8539	.8693
15.0	.8083	.8305	.8511	.8700	.8872	.9027	.9166
20.0	.8437	.8661	.8861	.9040	.9197	.9334	.9452
25.0	.8711	.8927	.9117	.9280	.9419	.9537	.9634
30.0	.8928	.9133	.9308	.9455	.9576	.9674	.9753
35.0	.9103	.9295	.9454	.9584	.9687	.9769	.9832
40.0	.9245	.9424	.9567	.9681	.9768	.9835	.9885
45.0	.9363	.9527	.9655	.9754	.9828	.9882	.9920
50.0	.9460	.9610	.9724	.9809	.9871	.9915	.9945
60.0	.9610	.9733	.9822	.9885	.9927	.9955	.9973
70.0	.9716	.9816	.9885	.9930	.9959	.9976	.9987
75.0	.9757	.9847	.9907	.9945	.9969	.9983	.9991
80.0	.9792	.9872	.9924	.9957	.9976	.9987	.9994
90.0	.9847	.9911	.9950	.9973	.9986	.9993	.9997
100.0	.9887	.9938	.9967	.9983	.9992	.9996	.9998

TABLE 5 (continued)

N	KA= .28	.30	.32	.34	.36	.38	.40
2.0	.6928	.7035	.7142	.7246	.7349	.7450	.7549
3.0	.7363	.7486	.7606	.7723	.7836	.7947	.8054
4.0	.7699	.7831	.7958	.8081	.8199	.8313	.8423
5.0	.7972	.8108	.8239	.8364	.8483	.8597	.8705
6.0	.8200	.8338	.8470	.8594	.8712	.8823	.8927
7.0	.8394	.8533	.8663	.8785	.8900	.9006	.9105
8.0	.8562	.8699	.8827	.8946	.9056	.9157	.9251
9.0	.8708	.8842	.8967	.9081	.9186	.9282	.9370
10.0	.8836	.8967	.9087	.9197	.9297	.9387	.9468
15.0	.9290	.9399	.9495	.9578	.9650	.9712	.9764
20.0	.9554	.9640	.9712	.9771	.9820	.9860	.9892
25.0	.9715	.9780	.9832	.9873	.9906	.9930	.9949
30.0	.9815	.9864	.9901	.9929	.9950	.9965	.9976
35.0	.9879	.9915	.9941	.9960	.9973	.9982	.9988
40.0	.9921	.9947	.9965	.9977	.9985	.9991	.9994
45.0	.9948	.9966	.9979	.9987	.9992	.9995	.9997
50.0	.9965	.9979	.9987	.9992	.9996	.9998	.9999
60.0	.9985	.9991	.9995	.9997	.9999	.9999	1.0000
70.0	.9993	.9996	.9998	.9999	1.0000	1.0000	1.0000
75.0	.9995	.9998	.9999	.9999	1.0000	1.0000	1.0000
80.0	.9997	.9999	.9999	1.0000	1.0000	1.0000	1.0000
90.0	.9999	.9999	1.0000	1.0000	1.0000	1.0000	1.0000
100.0	.9999	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

TABLE 5 (continued)

N	KA= .42	.44	.46	.48	.50	.52	.54
2.0	.7646	.7741	.7834	.7924	.8013	.8099	.8184
3.0	.8158	.8259	.8356	.8449	.8540	.8626	.8710
4.0	.8527	.8627	.8723	.8814	.8900	.8982	.9060
5.0	.8807	.8903	.8994	.9079	.9159	.9234	.9304
6.0	.9024	.9115	.9200	.9278	.9351	.9418	.9479
7.0	.9197	.9282	.9359	.9430	.9495	.9554	.9607
8.0	.9336	.9414	.9484	.9548	.9605	.9656	.9702
9.0	.9448	.9519	.9583	.9639	.9690	.9734	.9773
10.0	.9540	.9605	.9661	.9712	.9755	.9793	.9826
15.0	.9809	.9846	.9876	.9902	.9922	.9939	.9953
20.0	.9917	.9938	.9953	.9965	.9974	.9981	.9987
25.0	.9964	.9974	.9982	.9987	.9991	.9994	.9996
30.0	.9984	.9989	.9993	.9995	.9997	.9998	.9999
35.0	.9993	.9995	.9997	.9998	.9999	.9999	1.0000
40.0	.9997	.9998	.9999	.9999	1.0000	1.0000	1.0000
45.0	.9998	.9999	1.0000	1.0000	1.0000	1.0000	1.0000
50.0	.9999	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
60.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
70.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
75.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
80.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
90.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

TABLE 5 (continued)

N	KA= .56	.58	.60	.62	.64	.66	.68
2.0	.8266	.8345	.8423	.8498	.8570	.8641	.8709
3.0	.8790	.8866	.8939	.9009	.9075	.9138	.9198
4.0	.9133	.9202	.9266	.9327	.9384	.9437	.9487
5.0	.9369	.9429	.9484	.9536	.9583	.9626	.9666
6.0	.9535	.9587	.9633	.9676	.9714	.9749	.9780
7.0	.9655	.9699	.9737	.9772	.9802	.9829	.9853
8.0	.9743	.9779	.9811	.9838	.9863	.9884	.9902
9.0	.9807	.9837	.9863	.9885	.9904	.9920	.9934
10.0	.9855	.9879	.9900	.9918	.9933	.9945	.9955
15.0	.9964	.9972	.9979	.9984	.9988	.9991	.9993
20.0	.9990	.9993	.9995	.9997	.9998	.9998	.9999
25.0	.9997	.9998	.9999	.9999	1.0000	1.0000	1.0000
30.0	.9999	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
35.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
40.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
45.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
50.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
60.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
70.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
75.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
80.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
90.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000



TABLE 5 (continued)

N	KA= .70	.72	.74	.76	.78	.80	.82
2.0	.8775	.8838	.8899	.8958	.9015	.9069	.9121
3.0	.9255	.9308	.9359	.9407	.9452	.9494	.9534
4.0	.9533	.9575	.9615	.9652	.9685	.9716	.9745
5.0	.9702	.9735	.9764	.9791	.9816	.9838	.9857
6.0	.9807	.9832	.9854	.9874	.9891	.9906	.9919
7.0	.9874	.9893	.9909	.9923	.9935	.9945	.9954
8.0	.9918	.9931	.9942	.9952	.9961	.9968	.9973
9.0	.9946	.9955	.9964	.9970	.9976	.9981	.9985
10.0	.9964	.9971	.9977	.9982	.9985	.9989	.9991
15.0	.9995	.9996	.9997	.9998	.9999	.9999	.9999
20.0	.9999	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
25.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
30.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
35.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
40.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
45.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
50.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
60.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
70.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
75.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
80.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
90.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

TABLE 5 (continued)

N	KA= .84	.86	.88	.90	.92	.94	.96
2.0	.9172	.9220	.9265	.9309	.9351	.9391	.9429
3.0	.9572	.9606	.9639	.9669	.9698	.9724	.9748
4.0	.9771	.9795	.9816	.9836	.9854	.9870	.9885
5.0	.9875	.9891	.9905	.9917	.9928	.9938	.9946
6.0	.9931	.9941	.9950	.9957	.9964	.9970	.9974
7.0	.9961	.9968	.9973	.9978	.9982	.9985	.9988
8.0	.9978	.9982	.9986	.9988	.9991	.9993	.9994
9.0	.9988	.9990	.9992	.9994	.9995	.9996	.9997
10.0	.9993	.9995	.9996	.9997	.9998	.9998	.9999
15.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
20.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
25.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
30.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
35.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
40.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
45.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
50.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
60.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
70.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
75.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
80.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
90.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

TABLE 5 (continued)

N	KA= .92	1.00	1.02	1.04	1.06	1.08	1.10
2.0	.9465	.9500	.9532	.9563	.9592	.9620	.9646
3.0	.9771	.9792	.9811	.9829	.9845	.9860	.9874
4.0	.9898	.9910	.9921	.9930	.9939	.9946	.9953
5.0	.9954	.9960	.9966	.9971	.9975	.9979	.9982
6.0	.9979	.9982	.9985	.9988	.9990	.9992	.9993
7.0	.9990	.9992	.9993	.9995	.9996	.9997	.9997
8.0	.9995	.9996	.9997	.9998	.9998	.9999	.9999
9.0	.9998	.9998	.9999	.9999	.9999	.9999	1.0000
10.0	.9999	.9999	.9999	1.0000	1.0000	1.0000	1.0000
15.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
20.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
25.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
30.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
35.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
40.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
45.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
50.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
60.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
70.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
75.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
80.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
90.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

TABLE 6  
TABLE OF TRUNCATED NORMAL DISTRIBUTION  
PO= .040

N	KA= .00	.02	.04	.06	.08	.10	.12
2.0	.5402	.5524	.5647	.5768	.5890	.6011	.6131
3.0	.5556	.5706	.5855	.6003	.6150	.6295	.6439
4.0	.5678	.5850	.6021	.6190	.6357	.6522	.6685
5.0	.5780	.5972	.6162	.6349	.6533	.6714	.6892
6.0	.5871	.6080	.6286	.6489	.6688	.6882	.7072
7.0	.5953	.6177	.6398	.6614	.6826	.7032	.7233
8.0	.6028	.6266	.6500	.6729	.6952	.7168	.7378
9.0	.6097	.6348	.6594	.6834	.7068	.7293	.7509
10.0	.6162	.6425	.6683	.6933	.7175	.7407	.7630
15.0	.6438	.6752	.7054	.7343	.7617	.7876	.8118
20.0	.6663	.7014	.7348	.7663	.7956	.8227	.8474
25.0	.6855	.7236	.7593	.7925	.8229	.8503	.8748
30.0	.7023	.7428	.7804	.8146	.8454	.8726	.8964
35.0	.7174	.7599	.7987	.8335	.8643	.8910	.9137
40.0	.7311	.7751	.8149	.8500	.8804	.9063	.9278
45.0	.7436	.7889	.8293	.8644	.8943	.9191	.9393
50.0	.7551	.8015	.8422	.8771	.9062	.9300	.9488
60.0	.7757	.8236	.8645	.8985	.9258	.9472	.9634
70.0	.7938	.8425	.8830	.9156	.9409	.9598	.9736
75.0	.8020	.8509	.8911	.9229	.9471	.9649	.9775
80.0	.8098	.8588	.8985	.9295	.9526	.9693	.9808
90.0	.8241	.8730	.9117	.9408	.9619	.9764	.9860
100.0	.8369	.8855	.9229	.9502	.9692	.9818	.9897

TABLE 6 (continued)

N	KA= .14	.16	.18	.20	.22	.24	.26
2.0	.6250	.6368	.6485	.6601	.6715	.6829	.6940
3.0	.6581	.6722	.6860	.6995	.7129	.7259	.7387
4.0	.6844	.7001	.7154	.7304	.7450	.7592	.7730
5.0	.7066	.7235	.7399	.7559	.7714	.7863	.8007
6.0	.7257	.7436	.7610	.7777	.7937	.8091	.8237
7.0	.7427	.7614	.7793	.7965	.8129	.8285	.8433
8.0	.7579	.7772	.7956	.8132	.8298	.8454	.8601
9.0	.7717	.7915	.8102	.8279	.8446	.8602	.8747
10.0	.7843	.8044	.8234	.8412	.8578	.8733	.8875
15.0	.8342	.8549	.8738	.8910	.9064	.9202	.9324
20.0	.8698	.8899	.9076	.9232	.9367	.9483	.9582
25.0	.8964	.9152	.9313	.9450	.9565	.9660	.9737
30.0	.9168	.9341	.9484	.9602	.9697	.9773	.9832
35.0	.9327	.9484	.9610	.9710	.9788	.9847	.9892
40.0	.9453	.9593	.9703	.9787	.9850	.9897	.9930
45.0	.9554	.9678	.9773	.9843	.9894	.9930	.9954
50.0	.9634	.9745	.9826	.9884	.9924	.9952	.9970
60.0	.9753	.9838	.9896	.9936	.9961	.9977	.9987
70.0	.9831	.9896	.9938	.9964	.9980	.9989	.9994
75.0	.9860	.9916	.9952	.9973	.9986	.9993	.9996
80.0	.9884	.9933	.9962	.9980	.9990	.9995	.9998
90.0	.9920	.9956	.9977	.9989	.9995	.9997	.9999
100.0	.9945	.9972	.9986	.9994	.9997	.9999	1.0000

TABLE 6 (continued)

N	KA= .28	.30	.32	.34	.36	.38	.40
2.0	.7050	.7159	.7266	.7371	.7474	.7575	.7674
3.0	.7512	.7635	.7753	.7869	.7981	.8090	.8196
4.0	.7864	.7993	.8117	.8237	.8352	.8463	.8568
5.0	.8145	.8277	.8403	.8524	.8638	.8746	.8849
6.0	.8377	.8510	.8635	.8753	.8864	.8968	.9065
7.0	.8572	.8703	.8826	.8940	.9047	.9145	.9236
8.0	.8739	.8867	.8985	.9095	.9196	.9288	.9372
9.0	.8882	.9006	.9120	.9224	.9319	.9405	.9482
10.0	.9006	.9126	.9235	.9333	.9422	.9501	.9571
15.0	.9432	.9526	.9607	.9676	.9735	.9785	.9827
20.0	.9665	.9734	.9791	.9837	.9875	.9904	.9928
25.0	.9799	.9848	.9887	.9917	.9939	.9956	.9969
30.0	.9878	.9912	.9938	.9957	.9970	.9980	.9987
35.0	.9925	.9949	.9966	.9977	.9985	.9991	.9994
40.0	.9954	.9970	.9981	.9988	.9993	.9996	.9997
45.0	.9971	.9982	.9989	.9994	.9996	.9998	.9999
50.0	.9982	.9989	.9994	.9997	.9998	.9999	.9999
60.0	.9993	.9996	.9998	.9999	1.0000	1.0000	1.0000
70.0	.9997	.9999	.9999	1.0000	1.0000	1.0000	1.0000
75.0	.9998	.9999	1.0000	1.0000	1.0000	1.0000	1.0000
80.0	.9999	.9999	1.0000	1.0000	1.0000	1.0000	1.0000
90.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000



TABLE 6 (continued)

N	KA= .42	.44	.46	.48	.50	.52	.54
2.0	.7771	.7866	.7958	.8048	.8136	.8222	.8305
3.0	.8298	.8396	.8491	.8582	.8669	.8753	.8833
4.0	.8669	.8765	.8856	.8943	.9025	.9102	.9175
5.0	.8945	.9036	.9121	.9200	.9274	.9343	.9407
6.0	.9156	.9239	.9317	.9388	.9454	.9514	.9568
7.0	.9319	.9396	.9465	.9529	.9586	.9637	.9684
8.0	.9448	.9517	.9579	.9635	.9684	.9728	.9767
9.0	.9551	.9613	.9667	.9716	.9758	.9795	.9827
10.0	.9633	.9688	.9736	.9778	.9814	.9845	.9871
15.0	.9862	.9891	.9914	.9933	.9948	.9960	.9969
20.0	.9946	.9960	.9971	.9979	.9985	.9989	.9992
25.0	.9978	.9985	.9990	.9993	.9995	.9997	.9998
30.0	.9991	.9994	.9996	.9998	.9999	.9999	1.0000
35.0	.9996	.9998	.9999	.9999	1.0000	1.0000	1.0000
40.0	.9999	.9999	1.0000	1.0000	1.0000	1.0000	1.0000
45.0	.9999	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
50.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
60.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
70.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
75.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
80.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
90.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

TABLE 6 (continued)

N	KA = .56	.58	.60	.62	.64	.66	.68
2.0	.8386	.8465	.8541	.8614	.8685	.8754	.8821
3.0	.8910	.8983	.9053	.9119	.9182	.9241	.9297
4.0	.9243	.9307	.9367	.9423	.9475	.9523	.9568
5.0	.9465	.9520	.9570	.9615	.9657	.9695	.9730
6.0	.9618	.9663	.9704	.9740	.9773	.9802	.9829
7.0	.9725	.9762	.9795	.9823	.9849	.9871	.9890
8.0	.9801	.9831	.9857	.9879	.9898	.9915	.9929
9.0	.9855	.9879	.9899	.9917	.9931	.9944	.9954
10.0	.9894	.9913	.9929	.9942	.9954	.9963	.9970
15.0	.9977	.9983	.9987	.9990	.9993	.9995	.9996
20.0	.9995	.9996	.9998	.9998	.9999	.9999	1.0000
25.0	.9999	.9999	1.0000	1.0000	1.0000	1.0000	1.0000
30.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
35.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
40.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
45.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
50.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
60.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
70.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
75.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
80.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
90.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

TABLE 6 (continued)

N	KA= .70	.72	.74	.76	.78	.80	.82
2.0	.8884	.8946	.9005	.9062	.9116	.9168	.9218
3.0	.9350	.9400	.9447	.9491	.9533	.9571	.9608
4.0	.9609	.9648	.9683	.9715	.9745	.9771	.9796
5.0	.9761	.9789	.9814	.9837	.9858	.9876	.9892
6.0	.9852	.9872	.9890	.9906	.9919	.9931	.9942
7.0	.9907	.9922	.9934	.9945	.9954	.9962	.9968
8.0	.9941	.9952	.9960	.9968	.9974	.9979	.9983
9.0	.9963	.9970	.9976	.9981	.9985	.9988	.9990
10.0	.9976	.9981	.9985	.9989	.9991	.9993	.9995
15.0	.9997	.9998	.9999	.9999	.9999	1.0000	1.0000
20.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
25.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
30.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
35.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
40.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
45.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
50.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
60.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
70.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
75.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
80.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
90.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

TABLE 6 (continued)

N	KA= .84	.86	.88	.90	.92	.94	.96
2.0	.9266	.9311	.9355	.9396	.9435	.9472	.9508
3.0	.9641	.9672	.9702	.9728	.9753	.9776	.9798
4.0	.9818	.9839	.9857	.9873	.9888	.9902	.9914
5.0	.9906	.9919	.9930	.9940	.9948	.9956	.9962
6.0	.9951	.9959	.9965	.9971	.9976	.9980	.9983
7.0	.9974	.9979	.9982	.9986	.9988	.9991	.9992
8.0	.9986	.9989	.9991	.9993	.9994	.9996	.9997
9.0	.9993	.9994	.9995	.9996	.9997	.9998	.9998
10.0	.9996	.9997	.9998	.9998	.9999	.9999	.9999
15.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
20.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
25.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
30.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
35.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
40.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
45.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
50.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
60.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
70.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
75.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
80.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
90.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

TABLE 6 (continued)

N	KA= .98	1.00	1.02	1.04	1.06	1.08	1.10
2.0	.9541	.9573	.9603	.9631	.9658	.9683	.9706
3.0	.9817	.9835	.9851	.9866	.9880	.9892	.9904
4.0	.9924	.9934	.9942	.9950	.9956	.9962	.9967
5.0	.9968	.9973	.9977	.9980	.9984	.9986	.9988
6.0	.9986	.9989	.9991	.9992	.9994	.9995	.9996
7.0	.9994	.9995	.9996	.9997	.9998	.9998	.9998
8.0	.9997	.9998	.9998	.9999	.9999	.9999	.9999
9.0	.9999	.9999	.9999	.9999	1.0000	1.0000	1.0000
10.0	.9999	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
15.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
20.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
25.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
30.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
35.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
40.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
45.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
50.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
60.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
70.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
75.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
80.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
90.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

TABLE 7  
TABLE OF TRUNCATED NORMAL DISTRIBUTION  
PO= .050

N	KA= .00	.02	.04	.06	.08	.10	.12
2.0	.5506	.5630	.5754	.5878	.6001	.6123	.6244
3.0	.5693	.5845	.5995	.6145	.6293	.6439	.6584
4.0	.5840	.6014	.6186	.6357	.6525	.6690	.6853
5.0	.5965	.6158	.6348	.6536	.6720	.6901	.7077
6.0	.6074	.6284	.6490	.6693	.6891	.7084	.7272
7.0	.6173	.6397	.6618	.6833	.7043	.7247	.7444
8.0	.6263	.6501	.6734	.6961	.7181	.7393	.7598
9.0	.6346	.6597	.6841	.7078	.7306	.7526	.7737
10.0	.6424	.6686	.6940	.7186	.7422	.7648	.7864
15.0	.6753	.7060	.7354	.7632	.7895	.8140	.8367
20.0	.7018	.7357	.7677	.7974	.8248	.8498	.8723
25.0	.7241	.7604	.7941	.8248	.8525	.8772	.8988
30.0	.7435	.7816	.8162	.8474	.8748	.8987	.9191
35.0	.7606	.8000	.8352	.8663	.8931	.9159	.9349
40.0	.7759	.8162	.8517	.8824	.9084	.9298	.9473
45.0	.7898	.8307	.8661	.8962	.9211	.9412	.9571
50.0	.8024	.8436	.8788	.9081	.9319	.9506	.9650
60.0	.8245	.8659	.9002	.9276	.9489	.9649	.9765
70.0	.8435	.8844	.9172	.9425	.9613	.9748	.9841
75.0	.8519	.8925	.9244	.9487	.9663	.9786	.9869
80.0	.8598	.8999	.9310	.9541	.9706	.9818	.9892
90.0	.8740	.9130	.9423	.9632	.9775	.9868	.9926
100.0	.8865	.9242	.9515	.9704	.9827	.9904	.9949



TABLE 7 (continued)

N	KA= .14	.16	.18	.20	.22	.24	.26
2.0	.6365	.6484	.6602	.6719	.6835	.6949	.7061
3.0	.6727	.6868	.7006	.7142	.7275	.7405	.7532
4.0	.7012	.7168	.7320	.7469	.7613	.7753	.7889
5.0	.7249	.7417	.7579	.7736	.7888	.8033	.8173
6.0	.7454	.7630	.7799	.7962	.8118	.8266	.8407
7.0	.7633	.7816	.7990	.8156	.8314	.8463	.8603
8.0	.7793	.7980	.8158	.8325	.8483	.8632	.8770
9.0	.7937	.8127	.8306	.8475	.8632	.8778	.8913
10.0	.8068	.8260	.8440	.8607	.8762	.8905	.9036
15.0	.8575	.8765	.8938	.9092	.9230	.9351	.9457
20.0	.8924	.9102	.9257	.9392	.9506	.9603	.9684
25.0	.9176	.9337	.9472	.9585	.9678	.9753	.9813
30.0	.9363	.9505	.9621	.9714	.9788	.9844	.9888
35.0	.9504	.9628	.9726	.9801	.9859	.9901	.9932
40.0	.9611	.9719	.9800	.9861	.9905	.9937	.9959
45.0	.9694	.9786	.9854	.9902	.9936	.9959	.9975
50.0	.9758	.9837	.9893	.9931	.9957	.9974	.9984
60.0	.9848	.9904	.9941	.9965	.9980	.9989	.9994
70.0	.9903	.9943	.9968	.9982	.9991	.9995	.9998
75.0	.9923	.9956	.9976	.9987	.9994	.9997	.9999
80.0	.9938	.9966	.9982	.9991	.9996	.9998	.9999
90.0	.9960	.9980	.9990	.9995	.9998	.9999	1.0000
100.0	.9974	.9988	.9994	.9998	.9999	1.0000	1.0000

TABLE 7 (continued)

N	KA= .28	.30	.32	.34	.36	.38	.40
2.0	.7172	.7281	.7388	.7493	.7596	.7697	.7796
3.0	.7657	.7778	.7895	.8009	.8120	.8227	.8330
4.0	.8020	.8146	.8268	.8384	.8496	.8602	.8704
5.0	.8307	.8435	.8556	.8671	.8780	.8883	.8979
6.0	.8541	.8667	.8786	.8897	.9001	.9098	.9189
7.0	.8735	.8858	.8973	.9079	.9177	.9267	.9350
8.0	.8898	.9017	.9127	.9227	.9318	.9402	.9477
9.0	.9037	.9151	.9254	.9348	.9433	.9509	.9577
10.0	.9156	.9264	.9362	.9449	.9527	.9596	.9657
15.0	.9549	.9629	.9696	.9754	.9802	.9842	.9875
20.0	.9751	.9806	.9850	.9886	.9914	.9936	.9952
25.0	.9860	.9897	.9925	.9946	.9962	.9973	.9982
30.0	.9920	.9944	.9962	.9974	.9983	.9989	.9993
35.0	.9954	.9970	.9980	.9987	.9992	.9995	.9997
40.0	.9973	.9983	.9990	.9994	.9996	.9998	.9999
45.0	.9985	.9991	.9995	.9997	.9998	.9999	1.0000
50.0	.9991	.9995	.9997	.9999	.9999	1.0000	1.0000
60.0	.9997	.9998	.9999	1.0000	1.0000	1.0000	1.0000
70.0	.9999	.9999	1.0000	1.0000	1.0000	1.0000	1.0000
75.0	.9999	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
80.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
90.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

TABLE 7 (continued)

N	KA= .42	.44	.46	.48	.50	.52	.54
2.0	.7892	.7987	.8079	.8168	.8255	.8340	.8422
3.0	.8430	.8525	.8617	.8706	.8790	.8871	.8948
4.0	.8800	.8892	.8979	.9061	.9138	.9210	.9278
5.0	.9070	.9155	.9234	.9307	.9375	.9438	.9496
6.0	.9272	.9349	.9419	.9484	.9542	.9596	.9644
7.0	.9426	.9494	.9556	.9612	.9662	.9707	.9747
8.0	.9544	.9605	.9659	.9707	.9749	.9786	.9819
9.0	.9637	.9690	.9737	.9777	.9813	.9843	.9869
10.0	.9710	.9756	.9796	.9830	.9860	.9885	.9906
15.0	.9901	.9923	.9941	.9955	.9965	.9974	.9981
20.0	.9965	.9975	.9982	.9987	.9991	.9994	.9996
25.0	.9987	.9992	.9994	.9996	.9998	.9999	.9999
30.0	.9995	.9997	.9998	.9999	.9999	1.0000	1.0000
35.0	.9998	.9999	.9999	1.0000	1.0000	1.0000	1.0000
40.0	.9999	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
45.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
50.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
60.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
70.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
75.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
80.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
90.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

TABLE 7 (continued)

N	KA= .56	.58	.60	.62	.64	.66	.68
2.0	.8501	.8578	.8653	.8725	.8794	.8861	.8925
3.0	.9021	.9091	.9157	.9219	.9278	.9334	.9387
4.0	.9342	.9401	.9456	.9507	.9554	.9598	.9638
5.0	.9549	.9598	.9642	.9683	.9720	.9753	.9783
6.0	.9688	.9727	.9762	.9794	.9821	.9846	.9868
7.0	.9782	.9813	.9840	.9864	.9885	.9903	.9919
8.0	.9847	.9871	.9892	.9910	.9926	.9939	.9950
9.0	.9892	.9911	.9927	.9940	.9952	.9961	.9969
10.0	.9923	.9938	.9950	.9960	.9968	.9975	.9980
15.0	.9986	.9989	.9992	.9994	.9996	.9997	.9998
20.0	.9997	.9998	.9999	.9999	.9999	1.0000	1.0000
25.0	.9999	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
30.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
35.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
40.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
45.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
50.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
60.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
70.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
75.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
80.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
90.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

TABLE 7 (continued)

N	KA= .70	.72	.74	.76	.78	.80	.82
2.0	.8987	.9047	.9103	.9158	.9210	.9260	.9307
3.0	.9436	.9482	.9525	.9566	.9603	.9639	.9671
4.0	.9675	.9709	.9740	.9768	.9794	.9817	.9838
5.0	.9809	.9833	.9855	.9874	.9891	.9906	.9919
6.0	.9887	.9903	.9918	.9930	.9941	.9951	.9959
7.0	.9932	.9943	.9953	.9961	.9968	.9974	.9979
8.0	.9959	.9967	.9973	.9978	.9982	.9986	.9989
9.0	.9975	.9980	.9984	.9988	.9990	.9992	.9994
10.0	.9985	.9988	.9991	.9993	.9995	.9996	.9997
15.0	.9999	.9999	.9999	1.0000	1.0000	1.0000	1.0000
20.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
25.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
30.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
35.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
40.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
45.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
50.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
60.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
70.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
75.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
80.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
90.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

TABLE 7 (continued)

N	KA= .84	.86	.88	.90	.92	.94	.96
2.0	.9352	.9395	.9436	.9474	.9511	.9545	.9578
3.0	.9701	.9729	.9755	.9779	.9800	.9820	.9839
4.0	.9857	.9874	.9889	.9903	.9915	.9926	.9936
5.0	.9930	.9940	.9949	.9957	.9963	.9969	.9974
6.0	.9965	.9971	.9976	.9980	.9984	.9987	.9989
7.0	.9983	.9986	.9989	.9991	.9993	.9994	.9995
8.0	.9991	.9993	.9995	.9996	.9997	.9997	.9998
9.0	.9996	.9997	.9997	.9998	.9998	.9999	.9999
10.0	.9998	.9998	.9999	.9999	.9999	.9999	1.0000
15.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
20.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
25.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
30.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
35.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
40.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
45.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
50.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
60.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
70.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
75.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
80.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
90.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000



TABLE 7 (continued)

N	KA= .98	1.00	1.02	1.04	1.06	1.08	1.10
2.0	.9609	.9638	.9665	.9691	.9715	.9737	.9758
3.0	.9855	.9870	.9884	.9897	.9908	.9918	.9928
4.0	.9944	.9952	.9958	.9964	.9969	.9974	.9977
5.0	.9978	.9982	.9985	.9987	.9989	.9991	.9993
6.0	.9991	.9993	.9994	.9995	.9996	.9997	.9998
7.0	.9996	.9997	.9998	.9998	.9999	.9999	.9999
8.0	.9998	.9999	.9999	.9999	.9999	1.0000	1.0000
9.0	.9999	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
10.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
15.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
20.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
25.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
30.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
35.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
40.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
45.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
50.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
60.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
70.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
75.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
80.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
90.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

TABLE 8  
TABLE OF TRUNCATED NORMAL DISTRIBUTION  
PC= .060

N	KA= .00	.02	.04	.06	.08	.10	.12
2.0	.5612	.5738	.5863	.5988	.6112	.6236	.6359
3.0	.5831	.5984	.6136	.6286	.6435	.6583	.6728
4.0	.6003	.6178	.6351	.6522	.6690	.6855	.7017
5.0	.6148	.6342	.6532	.6720	.6903	.7083	.7258
6.0	.6275	.6485	.6691	.6892	.7089	.7280	.7465
7.0	.6390	.6614	.6833	.7046	.7253	.7453	.7646
8.0	.6494	.6731	.6961	.7185	.7401	.7609	.7807
9.0	.6590	.6839	.7079	.7312	.7535	.7749	.7952
10.0	.6680	.6939	.7188	.7429	.7658	.7877	.8084
15.0	.7057	.7355	.7638	.7904	.8152	.8382	.8593
20.0	.7355	.7679	.7981	.8259	.8512	.8739	.8942
25.0	.7603	.7944	.8256	.8537	.8786	.9004	.9193
30.0	.7814	.8167	.8482	.8760	.9001	.9206	.9378
35.0	.7999	.8357	.8672	.8943	.9172	.9363	.9517
40.0	.8162	.8522	.8833	.9095	.9311	.9486	.9623
45.0	.8306	.8667	.8971	.9222	.9424	.9583	.9705
50.0	.8436	.8794	.9090	.9329	.9517	.9661	.9768
60.0	.8660	.9007	.9284	.9498	.9658	.9774	.9855
70.0	.8845	.9177	.9432	.9621	.9756	.9848	.9908
75.0	.8926	.9250	.9494	.9670	.9793	.9875	.9927
80.0	.9000	.9315	.9548	.9713	.9824	.9897	.9942
90.0	.9131	.9427	.9638	.9781	.9873	.9930	.9963
100.0	.9243	.9520	.9709	.9832	.9908	.9952	.9976

TABLE 8 (continued)

N	KA= .14	.16	.18	.20	.22	.24	.26
2.0	.6480	.6600	.6720	.6837	.6954	.7068	.7181
3.0	.6871	.7012	.7150	.7286	.7418	.7548	.7674
4.0	.7176	.7331	.7482	.7629	.7771	.7909	.8042
5.0	.7428	.7593	.7753	.7906	.8054	.8196	.8331
6.0	.7643	.7815	.7980	.8138	.8288	.8431	.8566
7.0	.7831	.8008	.8176	.8335	.8486	.8628	.8761
8.0	.7997	.8176	.8346	.8506	.8655	.8795	.8924
9.0	.8145	.8326	.8496	.8655	.8802	.8937	.9062
10.0	.8278	.8460	.8629	.8785	.8929	.9061	.9180
15.0	.8785	.8958	.9113	.9251	.9372	.9477	.9568
20.0	.9121	.9276	.9410	.9524	.9620	.9699	.9765
25.0	.9354	.9489	.9601	.9692	.9766	.9824	.9870
30.0	.9520	.9635	.9727	.9798	.9854	.9896	.9927
35.0	.9641	.9737	.9811	.9867	.9908	.9937	.9958
40.0	.9730	.9810	.9869	.9912	.9942	.9962	.9976
45.0	.9795	.9862	.9908	.9941	.9963	.9977	.9986
50.0	.9845	.9899	.9936	.9960	.9976	.9986	.9992
60.0	.9910	.9945	.9968	.9982	.9990	.9995	.9997
70.0	.9947	.9970	.9984	.9992	.9996	.9998	.9999
75.0	.9959	.9978	.9989	.9994	.9997	.9999	.9999
80.0	.9969	.9984	.9992	.9996	.9998	.9999	1.0000
90.0	.9981	.9991	.9996	.9998	.9999	1.0000	1.0000
100.0	.9989	.9995	.9998	.9999	1.0000	1.0000	1.0000

TABLE 8 (continued)

N	KA= .28	.30	.32	.34	.36	.38	.40
2.0	.7292	.7401	.7509	.7614	.7717	.7817	.7915
3.0	.7797	.7917	.8032	.8145	.8253	.8358	.8459
4.0	.8170	.8293	.8411	.8523	.8631	.8734	.8831
5.0	.8460	.8583	.8699	.8809	.8912	.9009	.9100
6.0	.8693	.8813	.8925	.9029	.9127	.9216	.9299
7.0	.8884	.8999	.9106	.9204	.9294	.9376	.9451
8.0	.9043	.9152	.9253	.9344	.9426	.9500	.9567
9.0	.9176	.9279	.9373	.9457	.9532	.9598	.9657
10.0	.9288	.9385	.9472	.9549	.9616	.9676	.9727
15.0	.9646	.9713	.9768	.9815	.9853	.9885	.9910
20.0	.9818	.9861	.9895	.9921	.9942	.9957	.9969
25.0	.9905	.9931	.9951	.9966	.9976	.9984	.9989
30.0	.9949	.9966	.9977	.9985	.9990	.9994	.9996
35.0	.9973	.9983	.9989	.9993	.9996	.9998	.9999
40.0	.9985	.9991	.9995	.9997	.9998	.9999	.9999
45.0	.9992	.9995	.9997	.9999	.9999	1.0000	1.0000
50.0	.9996	.9998	.9999	.9999	1.0000	1.0000	1.0000
60.0	.9999	.9999	1.0000	1.0000	1.0000	1.0000	1.0000
70.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
75.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
80.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
90.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

TABLE 8 (continued)

N	KA= .42	.44	.46	.48	.50	.52	.54
2.0	.8011	.8105	.8196	.8284	.8370	.8454	.8534
3.0	.8556	.8649	.8738	.8823	.8904	.8981	.9055
4.0	.8923	.9010	.9092	.9169	.9241	.9309	.9372
5.0	.9184	.9263	.9336	.9403	.9466	.9523	.9575
6.0	.9376	.9445	.9509	.9567	.9619	.9667	.9709
7.0	.9518	.9579	.9634	.9683	.9727	.9765	.9799
8.0	.9626	.9679	.9726	.9767	.9802	.9834	.9860
9.0	.9709	.9754	.9793	.9827	.9856	.9881	.9902
10.0	.9772	.9811	.9844	.9872	.9895	.9915	.9932
15.0	.9931	.9947	.9960	.9970	.9977	.9983	.9988
20.0	.9978	.9984	.9989	.9993	.9995	.9997	.9998
25.0	.9993	.9995	.9997	.9998	.9999	.9999	1.0000
30.0	.9998	.9999	.9999	1.0000	1.0000	1.0000	1.0000
35.0	.9999	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
40.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
45.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
50.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
60.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
70.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
75.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
80.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
90.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

TABLE 8 (continued)

N	KA= .56	.58	.60	.62	.64	.66	.68
2.0	.8612	.8688	.8760	.8831	.8898	.8963	.9025
3.0	.9124	.9190	.9253	.9312	.9367	.9419	.9468
4.0	.9430	.9485	.9535	.9581	.9624	.9663	.9699
5.0	.9623	.9666	.9705	.9741	.9773	.9801	.9827
6.0	.9747	.9781	.9811	.9837	.9861	.9881	.9899
7.0	.9829	.9855	.9877	.9897	.9914	.9928	.9940
8.0	.9884	.9903	.9920	.9934	.9946	.9956	.9965
9.0	.9920	.9935	.9948	.9958	.9966	.9973	.9979
10.0	.9945	.9956	.9966	.9973	.9979	.9984	.9987
15.0	.9991	.9994	.9996	.9997	.9998	.9998	.9999
20.0	.9999	.9999	.9999	1.0000	1.0000	1.0000	1.0000
25.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
30.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
35.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
40.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
45.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
50.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
60.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
70.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
75.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
80.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
90.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000



TABLE 8 (continued)

N	KA= .70	.72	.74	.76	.78	.80	.82
2.0	.9084	.9141	.9196	.9248	.9297	.9344	.9389
3.0	.9513	.9556	.9595	.9632	.9666	.9697	.9727
4.0	.9732	.9762	.9789	.9813	.9835	.9855	.9873
5.0	.9850	.9870	.9888	.9903	.9917	.9929	.9940
6.0	.9914	.9928	.9939	.9949	.9958	.9965	.9971
7.0	.9951	.9960	.9967	.9973	.9978	.9982	.9986
8.0	.9972	.9977	.9982	.9986	.9989	.9991	.9993
9.0	.9983	.9987	.9990	.9992	.9994	.9995	.9997
10.0	.9990	.9993	.9994	.9996	.9997	.9998	.9998
15.0	.9999	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
20.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
25.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
30.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
35.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
40.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
45.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
50.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
60.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
70.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
75.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
80.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
90.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

TABLE 8 (continued)

N	KA= .84	.86	.88	.90	.92	.94	.96
2.0	.9431	.9471	.9509	.9545	.9579	.9611	.9641
3.0	.9753	.9778	.9801	.9821	.9840	.9857	.9873
4.0	.9889	.9903	.9916	.9927	.9937	.9946	.9953
5.0	.9949	.9957	.9964	.9969	.9974	.9979	.9982
6.0	.9976	.9980	.9984	.9987	.9989	.9991	.9993
7.0	.9989	.9991	.9993	.9994	.9996	.9997	.9997
8.0	.9995	.9996	.9997	.9998	.9998	.9999	.9999
9.0	.9997	.9998	.9999	.9999	.9999	.9999	1.0000
10.0	.9999	.9999	.9999	.9999	1.0000	1.0000	1.0000
15.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
20.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
25.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
30.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
35.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
40.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
45.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
50.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
60.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
70.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
75.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
80.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
90.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

TABLE 8 (continued)

N	KA= .98	1.00	1.02	1.04	1.06	1.08	1.10
2.0	.9669	.9695	.9720	.9743	.9764	.9784	.9803
3.0	.9887	.9900	.9911	.9922	.9931	.9939	.9947
4.0	.9960	.9966	.9971	.9975	.9979	.9982	.9985
5.0	.9985	.9988	.9990	.9992	.9993	.9994	.9995
6.0	.9994	.9996	.9996	.9997	.9998	.9998	.9999
7.0	.9998	.9998	.9999	.9999	.9999	.9999	1.0000
8.0	.9999	.9999	1.0000	1.0000	1.0000	1.0000	1.0000
9.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
10.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
15.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
20.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
25.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
30.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
35.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
40.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
45.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
50.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
60.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
70.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
75.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
80.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
90.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

TABLE 9  
TABLE OF TRUNCATED NORMAL DISTRIBUTION  
PO= .070

N	KA= .00	.02	.04	.06	.08	.10	.12
2.0	.5718	.5846	.5973	.6099	.6225	.6349	.6473
3.0	.5968	.6122	.6276	.6427	.6577	.6725	.6870
4.0	.6164	.6340	.6514	.6685	.6853	.7018	.7179
5.0	.6329	.6523	.6713	.6900	.7083	.7261	.7434
6.0	.6474	.6683	.6887	.7087	.7281	.7469	.7651
7.0	.6603	.6825	.7042	.7253	.7456	.7652	.7840
8.0	.6720	.6955	.7182	.7401	.7612	.7814	.8006
9.0	.6829	.7073	.7310	.7537	.7754	.7960	.8155
10.0	.6929	.7183	.7427	.7660	.7882	.8092	.8289
15.0	.7346	.7634	.7904	.8157	.8390	.8603	.8797
20.0	.7671	.7978	.8260	.8517	.8748	.8952	.9133
25.0	.7937	.8254	.8539	.8791	.9012	.9203	.9365
30.0	.8160	.8480	.8763	.9007	.9214	.9387	.9530
35.0	.8350	.8670	.8946	.9178	.9370	.9526	.9649
40.0	.8516	.8832	.9098	.9316	.9492	.9631	.9737
45.0	.8660	.8970	.9225	.9429	.9589	.9711	.9801
50.0	.8788	.9089	.9332	.9522	.9660	.9773	.9850
60.0	.9001	.9283	.9500	.9662	.9778	.9859	.9913
70.0	.9172	.9432	.9624	.9759	.9851	.9911	.9949
75.0	.9245	.9493	.9672	.9796	.9875	.9930	.9961
80.0	.9310	.9548	.9715	.9827	.9900	.9944	.9970
90.0	.9423	.9638	.9783	.9875	.9932	.9964	.9982
100.0	.9516	.9709	.9834	.9910	.9954	.9977	.9990

TABLE 9 (continued)

N	KA= .14	.16	.18	.20	.22	.24	.26
2.0	.6596	.6717	.6837	.6955	.7072	.7187	.7300
3.0	.7014	.7154	.7292	.7427	.7559	.7687	.7812
4.0	.7336	.7490	.7639	.7784	.7923	.8058	.8188
5.0	.7601	.7763	.7919	.8069	.8213	.8350	.8480
6.0	.7825	.7993	.8153	.8305	.8449	.8586	.8714
7.0	.8019	.8190	.8351	.8504	.8647	.8781	.8905
8.0	.8189	.8361	.8522	.8673	.8814	.8944	.9064
9.0	.8339	.8511	.8671	.8820	.8956	.9082	.9196
10.0	.8473	.8644	.8802	.8947	.9079	.9199	.9307
15.0	.8972	.9128	.9266	.9387	.9492	.9583	.9660
20.0	.9289	.9423	.9537	.9632	.9711	.9775	.9828
25.0	.9500	.9612	.9702	.9775	.9832	.9877	.9911
30.0	.9645	.9736	.9806	.9861	.9901	.9931	.9953
35.0	.9745	.9818	.9873	.9913	.9941	.9961	.9975
40.0	.9816	.9874	.9916	.9945	.9965	.9978	.9987
45.0	.9867	.9913	.9944	.9965	.9979	.9988	.9993
50.0	.9903	.9939	.9963	.9978	.9987	.9993	.9996
60.0	.9948	.9970	.9983	.9991	.9995	.9998	.9999
70.0	.9972	.9985	.9992	.9996	.9998	.9999	1.0000
75.0	.9979	.9990	.9995	.9998	.9999	1.0000	1.0000
80.0	.9985	.9993	.9997	.9998	.9999	1.0000	1.0000
90.0	.9992	.9996	.9998	.9999	1.0000	1.0000	1.0000
100.0	.9995	.9998	.9999	1.0000	1.0000	1.0000	1.0000

TABLE 9 (continued)

N	KA= .28	.30	.32	.34	.36	.38	.40
2.0	.7411	.7521	.7628	.7732	.7835	.7935	.8033
3.0	.7934	.8051	.8165	.8275	.8381	.8483	.8581
4.0	.8313	.8432	.8546	.8655	.8759	.8857	.8949
5.0	.8604	.8722	.8832	.8936	.9034	.9125	.9209
6.0	.8835	.8948	.9053	.9150	.9240	.9323	.9399
7.0	.9021	.9128	.9226	.9316	.9398	.9472	.9539
8.0	.9173	.9274	.9364	.9446	.9520	.9586	.9645
9.0	.9299	.9392	.9476	.9550	.9616	.9674	.9725
10.0	.9404	.9490	.9566	.9633	.9692	.9742	.9786
15.0	.9726	.9780	.9825	.9863	.9893	.9917	.9937
20.0	.9869	.9902	.9927	.9947	.9961	.9972	.9981
25.0	.9936	.9955	.9969	.9979	.9986	.9991	.9994
30.0	.9968	.9979	.9987	.9991	.9995	.9997	.9998
35.0	.9984	.9990	.9994	.9997	.9998	.9999	.9999
40.0	.9992	.9995	.9997	.9999	.9999	1.0000	1.0000
45.0	.9996	.9998	.9999	.9999	1.0000	1.0000	1.0000
50.0	.9998	.9999	.9999	1.0000	1.0000	1.0000	1.0000
60.0	.9999	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
70.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
75.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
80.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
90.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000



TABLE 9 (continued)

N	KA= .42	.44	.46	.48	.50	.52	.54
2.0	.8128	.8220	.8310	.8397	.8482	.8564	.8643
3.0	.8675	.8765	.8851	.8933	.9011	.9084	.9154
4.0	.9037	.9119	.9196	.9268	.9336	.9398	.9456
5.0	.9288	.9361	.9428	.9489	.9546	.9597	.9644
6.0	.9468	.9531	.9588	.9640	.9686	.9727	.9764
7.0	.9599	.9653	.9701	.9743	.9781	.9814	.9842
8.0	.9696	.9742	.9782	.9816	.9846	.9872	.9894
9.0	.9769	.9807	.9840	.9868	.9891	.9911	.9928
10.0	.9823	.9855	.9882	.9904	.9923	.9938	.9951
15.0	.9952	.9964	.9973	.9980	.9986	.9990	.9993
20.0	.9986	.9991	.9994	.9996	.9997	.9998	.9999
25.0	.9996	.9998	.9999	.9999	.9999	1.0000	1.0000
30.0	.9999	.9999	1.0000	1.0000	1.0000	1.0000	1.0000
35.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
40.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
45.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
50.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
60.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
70.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
75.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
80.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
90.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

TABLE 9 (continued)

N	KA=	.56	.58	.60	.62	.64	.66	.68
2.0		.8719	.8792	.8863	.8931	.8996	.9059	.9118
3.0		.9220	.9282	.9341	.9396	.9448	.9496	.9541
4.0		.9510	.9560	.9605	.9647	.9685	.9720	.9752
5.0		.9686	.9725	.9759	.9790	.9817	.9842	.9864
6.0		.9797	.9826	.9851	.9873	.9893	.9909	.9924
7.0		.9867	.9889	.9907	.9923	.9936	.9948	.9957
8.0		.9913	.9928	.9942	.9953	.9962	.9969	.9976
9.0		.9942	.9954	.9963	.9971	.9977	.9982	.9986
10.0		.9962	.9970	.9977	.9982	.9986	.9989	.9992
15.0		.9995	.9996	.9997	.9998	.9999	.9999	.9999
20.0		.9999	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
25.0		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
30.0		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
35.0		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
40.0		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
45.0		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
50.0		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
60.0		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
70.0		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
75.0		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
80.0		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
90.0		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100.0		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

TABLE 9 (continued)

N	KA= .70	.72	.74	.76	.78	.80	.82
2.0	.9176	.9230	.9282	.9331	.9378	.9422	.9464
3.0	.9582	.9621	.9657	.9690	.9721	.9749	.9775
4.0	.9781	.9807	.9830	.9851	.9870	.9887	.9902
5.0	.9883	.9900	.9914	.9927	.9938	.9948	.9956
6.0	.9936	.9947	.9956	.9964	.9970	.9976	.9980
7.0	.9965	.9972	.9977	.9982	.9985	.9988	.9991
8.0	.9981	.9985	.9988	.9991	.9993	.9994	.9996
9.0	.9989	.9992	.9994	.9995	.9996	.9997	.9998
10.0	.9994	.9996	.9997	.9998	.9998	.9999	.9999
15.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
20.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
25.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
30.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
35.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
40.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
45.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
50.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
60.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
70.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
75.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
80.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
90.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

TABLE 9 (continued)

N	KA= .84	.86	.88	.90	.92	.94	.96
2.0	.9504	.9541	.9577	.9610	.9641	.9670	.9697
3.0	.9798	.9820	.9840	.9857	.9874	.9888	.9901
4.0	.9915	.9927	.9937	.9946	.9954	.9961	.9967
5.0	.9963	.9969	.9975	.9979	.9983	.9986	.9988
6.0	.9984	.9987	.9990	.9992	.9993	.9995	.9996
7.0	.9993	.9994	.9996	.9997	.9997	.9998	.9998
8.0	.9997	.9998	.9998	.9999	.9999	.9999	.9999
9.0	.9999	.9999	.9999	.9999	1.0000	1.0000	1.0000
10.0	.9999	.9999	1.0000	1.0000	1.0000	1.0000	1.0000
15.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
20.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
25.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
30.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
35.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
40.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
45.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
50.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
60.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
70.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
75.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
80.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
90.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

TABLE 9 (continued)

N	KA= .98	1.00	1.02	1.04	1.06	1.08	1.10
2.0	.9723	.9746	.9768	.9789	.9808	.9826	.9842
3.0	.9913	.9924	.9933	.9942	.9949	.9956	.9962
4.0	.9972	.9976	.9980	.9983	.9986	.9988	.9990
5.0	.9990	.9992	.9994	.9995	.9996	.9997	.9997
6.0	.9997	.9997	.9998	.9998	.9999	.9999	.9999
7.0	.9999	.9999	.9999	.9999	1.0000	1.0000	1.0000
8.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
9.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
10.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
15.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
20.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
25.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
30.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
35.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
40.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
45.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
50.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
60.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
70.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
75.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
80.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
90.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

TABLE 10  
TABLE OF TRUNCATED NORMAL DISTRIBUTION  
PO= .080

N	KA= .00	.02	.04	.06	.08	.10	.12
2.0	.5826	.5955	.6083	.6211	.6338	.6463	.6588
3.0	.6106	.6261	.6415	.6567	.6718	.6866	.7012
4.0	.6325	.6501	.6675	.6846	.7013	.7177	.7338
5.0	.6509	.6702	.6892	.7078	.7258	.7434	.7604
6.0	.6669	.6877	.7080	.7277	.7468	.7653	.7830
7.0	.6812	.7033	.7246	.7453	.7652	.7843	.8025
8.0	.6942	.7173	.7396	.7610	.7815	.8010	.8195
9.0	.7061	.7301	.7532	.7752	.7962	.8160	.8346
10.0	.7170	.7419	.7656	.7881	.8094	.8294	.8481
15.0	.7622	.7897	.8154	.8390	.8607	.8804	.8980
20.0	.7967	.8254	.8515	.8749	.8957	.9139	.9297
25.0	.8243	.8533	.8790	.9014	.9207	.9371	.9507
30.0	.8470	.8757	.9005	.9216	.9391	.9535	.9651
35.0	.8660	.8941	.9177	.9372	.9529	.9654	.9750
40.0	.8822	.9093	.9316	.9494	.9634	.9741	.9820
45.0	.8961	.9221	.9429	.9591	.9714	.9805	.9870
50.0	.9081	.9328	.9522	.9668	.9776	.9853	.9906
60.0	.9276	.9497	.9662	.9780	.9861	.9915	.9950
70.0	.9425	.9621	.9759	.9852	.9913	.9951	.9973
75.0	.9487	.9670	.9796	.9879	.9931	.9962	.9980
80.0	.9541	.9712	.9827	.9900	.9945	.9971	.9985
90.0	.9633	.9781	.9875	.9932	.9965	.9983	.9992
100.0	.9705	.9832	.9910	.9954	.9978	.9990	.9996



TABLE 10 (continued)

N	KA= .14	.16	.18	.20	.22	.24	.26
2.0	.6712	.6834	.6954	.7073	.7190	.7305	.7419
3.0	.7155	.7295	.7432	.7566	.7696	.7823	.7947
4.0	.7494	.7645	.7792	.7934	.8071	.8203	.8329
5.0	.7769	.7927	.8080	.8225	.8364	.8496	.8622
6.0	.8000	.8162	.8317	.8463	.8601	.8731	.8853
7.0	.8198	.8362	.8516	.8661	.8796	.8922	.9039
8.0	.8370	.8533	.8686	.8828	.8959	.9080	.9190
9.0	.8521	.8683	.8833	.8971	.9097	.9212	.9315
10.0	.8654	.8814	.8960	.9093	.9214	.9322	.9419
15.0	.9138	.9277	.9399	.9504	.9594	.9671	.9736
20.0	.9432	.9546	.9641	.9720	.9784	.9835	.9876
25.0	.9619	.9710	.9782	.9839	.9882	.9915	.9940
30.0	.9742	.9812	.9866	.9906	.9935	.9956	.9971
35.0	.9823	.9877	.9917	.9945	.9964	.9977	.9986
40.0	.9878	.9919	.9948	.9967	.9980	.9988	.9993
45.0	.9916	.9947	.9967	.9980	.9989	.9994	.9996
50.0	.9941	.9965	.9979	.9988	.9994	.9997	.9998
60.0	.9971	.9984	.9992	.9996	.9998	.9999	1.0000
70.0	.9986	.9993	.9997	.9998	.9999	1.0000	1.0000
75.0	.9990	.9995	.9998	.9999	1.0000	1.0000	1.0000
80.0	.9993	.9997	.9999	.9999	1.0000	1.0000	1.0000
90.0	.9997	.9999	.9999	1.0000	1.0000	1.0000	1.0000
100.0	.9998	.9999	1.0000	1.0000	1.0000	1.0000	1.0000

TABLE 10 (continued)

N	KA= .28	.30	.32	.34	.36	.38	.40
2.0	.7530	.7639	.7745	.7850	.7952	.8051	.8148
3.0	.8066	.8182	.8294	.8401	.8505	.8604	.8699
4.0	.8450	.8566	.8675	.8780	.8879	.8972	.9060
5.0	.8740	.8852	.8956	.9054	.9146	.9231	.9310
6.0	.8966	.9072	.9170	.9260	.9343	.9418	.9487
7.0	.9146	.9244	.9334	.9416	.9490	.9557	.9616
8.0	.9291	.9382	.9464	.9537	.9602	.9660	.9711
9.0	.9409	.9492	.9566	.9631	.9688	.9738	.9781
10.0	.9505	.9581	.9647	.9705	.9755	.9797	.9834
15.0	.9790	.9834	.9870	.9900	.9923	.9942	.9956
20.0	.9907	.9932	.9951	.9965	.9975	.9983	.9988
25.0	.9958	.9971	.9981	.9987	.9992	.9995	.9997
30.0	.9981	.9988	.9992	.9995	.9997	.9998	.9999
35.0	.9991	.9995	.9997	.9998	.9999	.9999	1.0000
40.0	.9996	.9998	.9999	.9999	1.0000	1.0000	1.0000
45.0	.9998	.9999	.9999	1.0000	1.0000	1.0000	1.0000
50.0	.9999	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
60.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
70.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
75.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
80.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
90.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

TABLE 10 (continued)

N	KA= .42	.44	.46	.48	.50	.52	.54
2.0	.8242	.8333	.8421	.8507	.8590	.8670	.8747
3.0	.8790	.8876	.8958	.9037	.9111	.9181	.9247
4.0	.9142	.9220	.9292	.9359	.9421	.9479	.9533
5.0	.9382	.9449	.9510	.9566	.9617	.9663	.9704
6.0	.9550	.9606	.9657	.9702	.9743	.9779	.9811
7.0	.9669	.9716	.9758	.9794	.9826	.9854	.9878
8.0	.9755	.9794	.9828	.9857	.9882	.9903	.9920
9.0	.9818	.9850	.9877	.9900	.9919	.9935	.9948
10.0	.9865	.9890	.9912	.9930	.9944	.9956	.9966
15.0	.9967	.9976	.9983	.9987	.9991	.9994	.9996
20.0	.9992	.9995	.9996	.9998	.9998	.9999	.9999
25.0	.9998	.9999	.9999	1.0000	1.0000	1.0000	1.0000
30.0	.9999	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
35.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
40.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
45.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
50.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
60.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
70.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
75.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
80.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
90.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

TABLE 10 (continued)

N	KA= .56	.58	.60	.62	.64	.66	.68
2.0	.8821	.8893	.8961	.9027	.9090	.9150	.9207
3.0	.9309	.9368	.9422	.9473	.9521	.9565	.9606
4.0	.9582	.9626	.9668	.9705	.9739	.9770	.9798
5.0	.9742	.9775	.9805	.9832	.9855	.9876	.9894
6.0	.9838	.9863	.9884	.9903	.9918	.9932	.9944
7.0	.9898	.9916	.9931	.9943	.9954	.9962	.9970
8.0	.9935	.9948	.9958	.9967	.9973	.9979	.9984
9.0	.9959	.9967	.9975	.9980	.9985	.9988	.9991
10.0	.9973	.9980	.9984	.9988	.9991	.9993	.9995
15.0	.9997	.9998	.9999	.9999	.9999	1.0000	1.0000
20.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
25.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
30.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
35.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
40.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
45.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
50.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
60.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
70.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
75.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
80.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
90.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

TABLE 10 (continued)

N	KA= .70	.72	.74	.76	.78	.80	.82
2.0	.9261	.9313	.9362	.9409	.9453	.9494	.9534
3.0	.9645	.9680	.9712	.9742	.9769	.9794	.9817
4.0	.9823	.9845	.9865	.9883	.9899	.9913	.9925
5.0	.9910	.9924	.9936	.9946	.9955	.9962	.9969
6.0	.9953	.9962	.9969	.9975	.9979	.9984	.9987
7.0	.9976	.9981	.9985	.9988	.9991	.9993	.9994
8.0	.9987	.9990	.9992	.9994	.9996	.9997	.9998
9.0	.9993	.9995	.9996	.9997	.9998	.9998	.9999
10.0	.9996	.9997	.9998	.9999	.9999	.9999	.9999
15.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
20.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
25.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
30.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
35.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
40.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
45.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
50.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
60.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
70.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
75.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
80.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
90.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

TABLE 10 (continued)

N	KA= .84	.86	.88	.90	.92	.94	.96
2.0	.9570	.9605	.9638	.9668	.9696	.9723	.9748
3.0	.9837	.9856	.9873	.9888	.9902	.9914	.9925
4.0	.9936	.9945	.9954	.9961	.9967	.9972	.9977
5.0	.9974	.9979	.9983	.9986	.9989	.9991	.9993
6.0	.9989	.9992	.9993	.9995	.9996	.9997	.9998
7.0	.9996	.9997	.9997	.9998	.9999	.9999	.9999
8.0	.9998	.9999	.9999	.9999	.9999	1.0000	1.0000
9.0	.9999	.9999	1.0000	1.0000	1.0000	1.0000	1.0000
10.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
15.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
20.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
25.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
30.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
35.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
40.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
45.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
50.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
60.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
70.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
75.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
80.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
90.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000



TABLE 10 (continued)

N	KA= .98	1.00	1.02	1.04	1.06	1.08	1.10
2.0	.9770	.9792	.9811	.9829	.9846	.9861	.9875
3.0	.9935	.9943	.9951	.9958	.9964	.9969	.9973
4.0	.9981	.9984	.9987	.9989	.9991	.9993	.9994
5.0	.9994	.9995	.9996	.9997	.9998	.9998	.9998
6.0	.9998	.9999	.9999	.9999	.9999	.9999	1.0000
7.0	.9999	.9999	1.0000	1.0000	1.0000	1.0000	1.0000
8.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
9.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
10.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
15.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
20.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
25.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
30.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
35.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
40.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
45.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
50.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
60.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
70.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
75.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
80.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
90.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

TABLE 11  
TABLE OF TRUNCATED NORMAL DISTRIBUTION  
PO = .090

N	KA = .00	.02	.04	.06	.08	.10	.12
2.0	.5935	.6065	.6195	.6323	.6451	.6578	.6703
3.0	.6244	.6400	.6555	.6707	.6858	.7006	.7151
4.0	.6485	.6661	.6835	.7005	.7172	.7335	.7493
5.0	.6686	.6879	.7068	.7252	.7430	.7603	.7770
6.0	.6862	.7068	.7268	.7463	.7650	.7830	.8003
7.0	.7017	.7235	.7445	.7647	.7841	.8026	.8202
8.0	.7158	.7385	.7603	.7811	.8009	.8197	.8374
9.0	.7286	.7521	.7745	.7958	.8159	.8349	.8525
10.0	.7404	.7645	.7874	.8091	.8294	.8484	.8659
15.0	.7883	.8144	.8385	.8605	.8805	.8984	.9144
20.0	.8240	.8506	.8744	.8956	.9141	.9301	.9437
25.0	.8520	.8782	.9010	.9207	.9372	.9510	.9623
30.0	.8745	.8998	.9213	.9391	.9537	.9653	.9745
35.0	.8929	.9171	.9369	.9529	.9655	.9753	.9826
40.0	.9082	.9310	.9492	.9634	.9742	.9822	.9881
45.0	.9210	.9423	.9589	.9714	.9806	.9872	.9917
50.0	.9319	.9517	.9666	.9776	.9854	.9907	.9943
60.0	.9489	.9658	.9778	.9861	.9916	.9951	.9972
70.0	.9614	.9756	.9851	.9913	.9951	.9974	.9986
75.0	.9664	.9793	.9878	.9931	.9963	.9981	.9990
80.0	.9706	.9825	.9900	.9945	.9971	.9986	.9993
90.0	.9776	.9873	.9932	.9965	.9983	.9992	.9997
100.0	.9828	.9908	.9954	.9978	.9990	.9996	.9998

TABLE 11 (continued)

N	KA= .14	.16	.18	.20	.22	.24	.26
2.0	.6828	.6950	.7071	.7190	.7308	.7423	.7536
3.0	.7294	.7433	.7569	.7702	.7831	.7957	.8078
4.0	.7647	.7796	.7941	.8080	.8213	.8341	.8464
5.0	.7931	.8086	.8234	.8374	.8508	.8635	.8755
6.0	.8167	.8324	.8472	.8612	.8744	.8867	.8981
7.0	.8368	.8524	.8671	.8808	.8935	.9053	.9161
8.0	.8540	.8695	.8838	.8971	.9093	.9204	.9305
9.0	.8690	.8842	.8981	.9108	.9224	.9328	.9422
10.0	.8821	.8969	.9104	.9225	.9334	.9431	.9517
15.0	.9284	.9407	.9513	.9603	.9680	.9744	.9797
20.0	.9552	.9648	.9726	.9790	.9841	.9881	.9912
25.0	.9715	.9787	.9843	.9886	.9919	.9943	.9961
30.0	.9816	.9869	.9909	.9938	.9958	.9973	.9982
35.0	.9880	.9919	.9947	.9966	.9978	.9987	.9992
40.0	.9922	.9950	.9969	.9981	.9989	.9993	.9996
45.0	.9948	.9969	.9981	.9989	.9994	.9997	.9998
50.0	.9966	.9980	.9989	.9994	.9997	.9998	.9999
60.0	.9985	.9992	.9996	.9998	.9999	1.0000	1.0000
70.0	.9993	.9997	.9999	.9999	1.0000	1.0000	1.0000
75.0	.9995	.9998	.9999	1.0000	1.0000	1.0000	1.0000
80.0	.9997	.9999	.9999	1.0000	1.0000	1.0000	1.0000
90.0	.9999	.9999	1.0000	1.0000	1.0000	1.0000	1.0000
100.0	.9999	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

TABLE 11 (continued)

N	KA= .28	.30	.32	.34	.36	.38	.40
2.0	.7647	.7756	.7862	.7965	.8066	.8165	.8260
3.0	.8195	.8309	.8418	.8522	.8623	.8719	.8811
4.0	.8581	.8692	.8798	.8897	.8992	.9080	.9163
5.0	.8868	.8973	.9072	.9164	.9249	.9328	.9401
6.0	.9088	.9186	.9277	.9359	.9435	.9504	.9566
7.0	.9260	.9350	.9432	.9505	.9572	.9631	.9683
8.0	.9396	.9478	.9551	.9616	.9673	.9723	.9767
9.0	.9505	.9579	.9643	.9700	.9749	.9792	.9828
10.0	.9593	.9659	.9716	.9765	.9807	.9843	.9873
15.0	.9841	.9877	.9905	.9928	.9946	.9960	.9970
20.0	.9936	.9954	.9967	.9977	.9984	.9989	.9993
25.0	.9973	.9982	.9988	.9993	.9995	.9997	.9998
30.0	.9989	.9993	.9996	.9998	.9999	.9999	1.0000
35.0	.9995	.9997	.9998	.9999	1.0000	1.0000	1.0000
40.0	.9998	.9999	.9999	1.0000	1.0000	1.0000	1.0000
45.0	.9999	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
50.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
60.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
70.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
75.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
80.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
90.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

TABLE 11 (continued)

N	KA= .42	.44	.46	.48	.50	.52	.54
2.0	.8353	.8443	.8530	.8614	.8695	.8773	.8848
3.0	.8898	.8981	.9060	.9134	.9205	.9271	.9333
4.0	.9241	.9313	.9380	.9442	.9500	.9553	.9601
5.0	.9467	.9528	.9584	.9634	.9679	.9720	.9757
6.0	.9622	.9672	.9717	.9757	.9792	.9823	.9850
7.0	.9730	.9770	.9806	.9837	.9864	.9887	.9906
8.0	.9805	.9838	.9866	.9890	.9910	.9927	.9941
9.0	.9859	.9885	.9907	.9925	.9941	.9953	.9963
10.0	.9898	.9918	.9935	.9949	.9960	.9969	.9977
15.0	.9978	.9984	.9989	.9992	.9995	.9996	.9997
20.0	.9995	.9997	.9998	.9999	.9999	1.0000	1.0000
25.0	.9999	.9999	1.0000	1.0000	1.0000	1.0000	1.0000
30.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
35.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
40.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
45.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
50.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
60.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
70.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
75.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
80.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
90.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

TABLE 11 (continued)

N	K $\lambda$ = .56	.58	.60	.62	.64	.66	.68
2.0	.8920	.8969	.9055	.9118	.9178	.9236	.9290
3.0	.9391	.9446	.9497	.9544	.9588	.9628	.9666
4.0	.9645	.9686	.9723	.9756	.9786	.9813	.9837
5.0	.9789	.9818	.9844	.9867	.9886	.9904	.9919
6.0	.9873	.9894	.9911	.9926	.9939	.9950	.9959
7.0	.9923	.9937	.9949	.9959	.9967	.9974	.9979
8.0	.9953	.9963	.9970	.9977	.9982	.9986	.9989
9.0	.9971	.9978	.9983	.9987	.9990	.9993	.9994
10.0	.9982	.9987	.9990	.9993	.9995	.9996	.9997
15.0	.9998	.9999	.9999	1.0000	1.0000	1.0000	1.0000
20.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
25.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
30.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
35.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
40.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
45.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
50.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
60.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
70.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
75.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
80.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
90.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000



TABLE 11 (continued)

N	KA= .70	.72	.74	.76	.78	.80	.82
2.0	.9342	.9391	.9437	.9481	.9522	.9561	.9597
3.0	.9700	.9732	.9761	.9787	.9811	.9833	.9853
4.0	.9858	.9878	.9895	.9910	.9923	.9934	.9944
5.0	.9932	.9943	.9953	.9961	.9968	.9974	.9978
6.0	.9967	.9973	.9978	.9983	.9986	.9989	.9992
7.0	.9984	.9987	.9990	.9992	.9994	.9996	.9997
8.0	.9992	.9994	.9995	.9997	.9997	.9998	.9999
9.0	.9996	.9997	.9998	.9998	.9999	.9999	.9999
10.0	.9998	.9999	.9999	.9999	.9999	1.0000	1.0000
15.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
20.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
25.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
30.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
35.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
40.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
45.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
50.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
60.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
70.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
75.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
80.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
90.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

TABLE 11 (continued)

N	KA = .84	.86	.88	.90	.92	.94	.96
2.0	.9631	.9663	.9693	.9721	.9746	.9770	.9792
3.0	.9871	.9887	.9901	.9914	.9925	.9935	.9944
4.0	.9953	.9960	.9967	.9972	.9977	.9981	.9985
5.0	.9983	.9986	.9989	.9991	.9993	.9994	.9996
6.0	.9993	.9995	.9996	.9997	.9998	.9998	.9999
7.0	.9997	.9998	.9999	.9999	.9999	.9999	1.0000
8.0	.9999	.9999	.9999	1.0000	1.0000	1.0000	1.0000
9.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
10.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
15.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
20.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
25.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
30.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
35.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
40.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
45.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
50.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
60.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
70.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
75.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
80.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
90.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

TABLE 11 (continued)

N	KA= .98	1.00	1.02	1.04	1.06	1.08	1.10
2.0	.9813	.9831	.9849	.9864	.9879	.9892	.9904
3.0	.9952	.9959	.9965	.9970	.9975	.9979	.9982
4.0	.9987	.9990	.9992	.9993	.9995	.9996	.9997
5.0	.9997	.9997	.9998	.9998	.9999	.9999	.9999
6.0	.9999	.9999	.9999	1.0000	1.0000	1.0000	1.0000
7.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
8.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
9.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
10.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
15.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
20.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
25.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
30.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
35.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
40.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
45.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
50.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
60.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
70.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
75.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
80.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
90.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

TABLE 12  
TABLE OF TRUNCATED NORMAL DISTRIBUTION  
PO= .100

N	KA= .00	.02	.04	.06	.08	.10	.12
2.0	.6045	.6177	.6307	.6437	.6566	.6693	.6820
3.0	.6382	.6539	.6694	.6847	.6998	.7145	.7290
4.0	.6644	.6821	.6994	.7163	.7328	.7490	.7646
5.0	.6863	.7054	.7241	.7423	.7599	.7768	.7932
6.0	.7052	.7256	.7453	.7643	.7826	.8002	.8169
7.0	.7219	.7433	.7638	.7835	.8023	.8202	.8370
8.0	.7369	.7591	.7802	.8004	.8195	.8375	.8543
9.0	.7505	.7733	.7950	.8155	.8347	.8526	.8693
10.0	.7630	.7863	.8083	.8290	.8482	.8661	.8825
15.0	.8129	.8374	.8599	.8802	.8984	.9146	.9288
20.0	.8492	.8735	.8950	.9139	.9301	.9439	.9556
25.0	.8769	.9002	.9202	.9371	.9511	.9625	.9717
30.0	.8986	.9205	.9387	.9536	.9654	.9747	.9818
35.0	.9159	.9362	.9526	.9654	.9753	.9827	.9882
40.0	.9299	.9486	.9631	.9741	.9823	.9882	.9923
45.0	.9414	.9584	.9712	.9805	.9872	.9918	.9949
50.0	.9508	.9662	.9774	.9853	.9907	.9943	.9967
60.0	.9651	.9775	.9860	.9916	.9951	.9973	.9985
70.0	.9750	.9849	.9912	.9951	.9974	.9987	.9993
75.0	.9788	.9876	.9930	.9963	.9981	.9991	.9996
80.0	.9820	.9898	.9944	.9971	.9986	.9993	.9997
90.0	.9870	.9930	.9965	.9983	.9992	.9997	.9999
100.0	.9905	.9952	.9978	.9990	.9996	.9998	.9999

TABLE 12 (continued)

N	KA= .14	.16	.18	.20	.22	.24	.26
2.0	.6944	.7067	.7189	.7308	.7425	.7540	.7653
3.0	.7432	.7570	.7705	.7836	.7964	.8087	.8206
4.0	.7798	.7944	.8085	.8221	.8351	.8475	.8594
5.0	.8089	.8239	.8382	.8517	.8646	.8767	.8881
6.0	.8328	.8479	.8620	.8753	.8878	.8994	.9101
7.0	.8529	.8678	.8816	.8945	.9064	.9173	.9272
8.0	.8700	.8845	.8980	.9103	.9215	.9316	.9408
9.0	.8847	.8988	.9117	.9234	.9339	.9432	.9516
10.0	.8975	.9111	.9233	.9343	.9441	.9527	.9603
15.0	.9412	.9519	.9610	.9687	.9751	.9804	.9847
20.0	.9652	.9731	.9794	.9845	.9885	.9915	.9939
25.0	.9790	.9847	.9890	.9922	.9946	.9963	.9975
30.0	.9872	.9911	.9940	.9960	.9974	.9983	.9990
35.0	.9921	.9948	.9967	.9979	.9987	.9993	.9996
40.0	.9951	.9970	.9982	.9989	.9994	.9997	.9998
45.0	.9969	.9982	.9990	.9994	.9997	.9998	.9999
50.0	.9981	.9989	.9994	.9997	.9999	.9999	1.0000
60.0	.9992	.9996	.9998	.9999	1.0000	1.0000	1.0000
70.0	.9997	.9999	.9999	1.0000	1.0000	1.0000	1.0000
75.0	.9998	.9999	1.0000	1.0000	1.0000	1.0000	1.0000
80.0	.9999	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
90.0	.9999	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

TABLE 12 (continued)

N	KA= .28	.30	.32	.34	.36	.38	.40
2.0	.7764	.7872	.7977	.8080	.8179	.8276	.8371
3.0	.8321	.8432	.8538	.8640	.8737	.8830	.8918
4.0	.8706	.8813	.8914	.9009	.9098	.9181	.9259
5.0	.8988	.9087	.9180	.9266	.9345	.9417	.9484
6.0	.9200	.9291	.9374	.9450	.9519	.9580	.9636
7.0	.9363	.9445	.9519	.9585	.9643	.9695	.9741
8.0	.9490	.9563	.9628	.9684	.9734	.9778	.9815
9.0	.9590	.9654	.9710	.9759	.9801	.9837	.9867
10.0	.9669	.9725	.9774	.9815	.9850	.9880	.9904
15.0	.9882	.9910	.9932	.9949	.9963	.9973	.9980
20.0	.9956	.9969	.9979	.9986	.9990	.9994	.9996
25.0	.9984	.9989	.9993	.9996	.9997	.9998	.9999
30.0	.9994	.9996	.9998	.9999	.9999	1.0000	1.0000
35.0	.9998	.9999	.9999	1.0000	1.0000	1.0000	1.0000
40.0	.9999	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
45.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
50.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
60.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
70.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
75.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
80.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
90.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000



TABLE 12 (continued)

N	KA= .42	.44	.46	.48	.50	.52	.54
2.0	.8462	.8550	.8635	.8717	.8796	.8872	.8945
3.0	.9002	.9081	.9156	.9226	.9293	.9355	.9413
4.0	.9332	.9399	.9461	.9518	.9571	.9619	.9663
5.0	.9544	.9599	.9649	.9694	.9734	.9770	.9802
6.0	.9686	.9730	.9769	.9803	.9834	.9860	.9883
7.0	.9781	.9816	.9847	.9873	.9895	.9914	.9930
8.0	.9847	.9874	.9897	.9917	.9933	.9947	.9958
9.0	.9892	.9914	.9931	.9945	.9957	.9967	.9974
10.0	.9924	.9940	.9953	.9964	.9973	.9979	.9984
15.0	.9986	.9990	.9993	.9995	.9997	.9998	.9999
20.0	.9997	.9998	.9999	.9999	1.0000	1.0000	1.0000
25.0	.9999	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
30.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
35.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
40.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
45.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
50.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
60.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
70.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
75.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
80.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
90.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

TABLE 12 (continued)

N	KA= .56	.58	.60	.62	.64	.66	.68
2.0	.9014	.9081	.9144	.9205	.9263	.9317	.9369
3.0	.9468	.9518	.9565	.9608	.9648	.9685	.9719
4.0	.9702	.9738	.9771	.9800	.9826	.9850	.9870
5.0	.9830	.9855	.9877	.9896	.9913	.9927	.9939
6.0	.9902	.9919	.9933	.9945	.9955	.9964	.9971
7.0	.9943	.9954	.9963	.9971	.9977	.9982	.9986
8.0	.9967	.9974	.9980	.9984	.9988	.9991	.9993
9.0	.9980	.9985	.9989	.9992	.9994	.9995	.9997
10.0	.9988	.9991	.9994	.9995	.9997	.9998	.9998
15.0	.9999	.9999	1.0000	1.0000	1.0000	1.0000	1.0000
20.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
25.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
30.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
35.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
40.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
45.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
50.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
60.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
70.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
75.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
80.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
90.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

TABLE 12 (continued)

N	KA= .70	.72	.74	.76	.78	.80	.82
2.0	.9418	.9464	.9507	.9548	.9586	.9622	.9656
3.0	.9750	.9778	.9804	.9827	.9848	.9867	.9884
4.0	.9889	.9905	.9919	.9931	.9942	.9952	.9960
5.0	.9950	.9959	.9966	.9972	.9978	.9982	.9986
6.0	.9977	.9982	.9986	.9989	.9991	.9993	.9995
7.0	.9989	.9992	.9994	.9995	.9997	.9997	.9998
8.0	.9995	.9996	.9997	.9998	.9999	.9999	.9999
9.0	.9998	.9998	.9999	.9999	.9999	1.0000	1.0000
10.0	.9999	.9999	.9999	1.0000	1.0000	1.0000	1.0000
15.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
20.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
25.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
30.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
35.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
40.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
45.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
50.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
60.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
70.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
75.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
80.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
90.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

TABLE 12 (continued)

N	KA= .84	.86	.88	.90	.92	.94	.96
2.0	.9687	.9716	.9743	.9768	.9791	.9813	.9832
3.0	.9899	.9913	.9925	.9935	.9945	.9953	.9960
4.0	.9966	.9972	.9977	.9981	.9985	.9988	.9990
5.0	.9989	.9991	.9993	.9995	.9996	.9997	.9998
6.0	.9996	.9997	.9998	.9998	.9999	.9999	.9999
7.0	.9999	.9999	.9999	.9999	1.0000	1.0000	1.0000
8.0	.9999	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
9.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
10.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
15.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
20.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
25.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
30.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
35.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
40.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
45.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
50.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
60.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
70.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
75.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
80.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
90.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

TABLE 12 (continued)

N	KA= .92	1.00	1.02	1.04	1.06	1.08	1.10
2.0	.9850	.9866	.9881	.9895	.9907	.9919	.9929
3.0	.9966	.9972	.9976	.9980	.9984	.9987	.9989
4.0	.9992	.9994	.9995	.9996	.9997	.9998	.9998
5.0	.9998	.9999	.9999	.9999	.9999	.9999	1.0000
6.0	.9999	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
7.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
8.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
9.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
10.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
15.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
20.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
25.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
30.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
35.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
40.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
45.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
50.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
60.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
70.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
75.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
80.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
90.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100.0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000



TABLE 13  
TABLE OF THE JOINT DISTRIBUTION OF  $\bar{X}$  AND  $X(N)$

PO= .001

N	KA= .00	.02	.04	.06	.08	.10	.12
2.0	.0020	.0020	.0021	.0021	.0021	.0021	.0021
3.0	.0030	.0030	.0030	.0030	.0031	.0031	.0031
4.0	.0039	.0039	.0039	.0039	.0039	.0039	.0039
5.0	.0048	.0048	.0047	.0047	.0047	.0047	.0047
6.0	.0056	.0056	.0055	.0055	.0055	.0054	.0054
7.0	.0064	.0063	.0063	.0062	.0062	.0061	.0060
8.0	.0072	.0071	.0070	.0069	.0068	.0067	.0066
9.0	.0079	.0078	.0077	.0076	.0074	.0073	.0071
10.0	.0086	.0085	.0084	.0082	.0080	.0079	.0077
15.0	.0121	.0118	.0115	.0111	.0107	.0103	.0099
20.0	.0154	.0149	.0143	.0137	.0130	.0123	.0116
25.0	.0186	.0178	.0169	.0160	.0150	.0140	.0130
30.0	.0216	.0205	.0193	.0181	.0168	.0155	.0142
35.0	.0246	.0232	.0217	.0201	.0184	.0168	.0151
40.0	.0275	.0257	.0239	.0219	.0199	.0179	.0159
45.0	.0304	.0282	.0260	.0236	.0212	.0188	.0165
50.0	.0332	.0307	.0280	.0252	.0224	.0197	.0170
60.0	.0388	.0353	.0318	.0281	.0245	.0210	.0177
70.0	.0441	.0398	.0353	.0308	.0263	.0220	.0181
75.0	.0468	.0420	.0370	.0320	.0271	.0224	.0182
80.0	.0494	.0441	.0386	.0331	.0277	.0227	.0182
90.0	.0546	.0482	.0417	.0352	.0290	.0232	.0181
100.0	.0597	.0522	.0446	.0371	.0299	.0235	.0179



TABLE 13 (continued)

N	KA = .14	.16	.18	.20	.22	.24	.26
2.0	.0022	.0022	.0022	.0022	.0022	.0022	.0022
3.0	.0031	.0031	.0031	.0031	.0031	.0031	.0030
4.0	.0039	.0039	.0039	.0038	.0038	.0038	.0037
5.0	.0046	.0046	.0046	.0045	.0044	.0044	.0043
6.0	.0053	.0052	.0052	.0051	.0050	.0049	.0048
7.0	.0059	.0058	.0057	.0056	.0054	.0053	.0051
8.0	.0065	.0063	.0062	.0060	.0058	.0057	.0055
9.0	.0070	.0068	.0066	.0064	.0062	.0060	.0057
10.0	.0074	.0072	.0070	.0067	.0065	.0062	.0059
15.0	.0094	.0090	.0085	.0080	.0075	.0070	.0065
20.0	.0109	.0102	.0094	.0087	.0080	.0072	.0066
25.0	.0120	.0110	.0100	.0090	.0081	.0072	.0063
30.0	.0129	.0116	.0103	.0091	.0080	.0069	.0059
35.0	.0135	.0119	.0104	.0090	.0077	.0065	.0054
40.0	.0140	.0121	.0104	.0088	.0074	.0061	.0049
45.0	.0143	.0122	.0103	.0085	.0070	.0056	.0044
50.0	.0145	.0122	.0101	.0082	.0065	.0051	.0040
60.0	.0146	.0119	.0095	.0074	.0056	.0042	.0031
70.0	.0145	.0114	.0087	.0066	.0048	.0034	.0024
75.0	.0144	.0111	.0084	.0061	.0044	.0031	.0021
80.0	.0142	.0108	.0080	.0057	.0040	.0027	.0018
90.0	.0137	.0101	.0072	.0050	.0033	.0022	.0014
100.0	.0132	.0094	.0065	.0043	.0028	.0017	.0010

TABLE 13 (continued)

N	KA= .28	.30	.32	.34	.36	.38	.40
2.0	.0022	.0022	.0021	.0021	.0021	.0021	.0021
3.0	.0030	.0030	.0030	.0029	.0029	.0029	.0028
4.0	.0037	.0036	.0036	.0035	.0035	.0034	.0033
5.0	.0042	.0041	.0041	.0040	.0039	.0038	.0037
6.0	.0047	.0045	.0044	.0043	.0041	.0040	.0039
7.0	.0050	.0048	.0047	.0045	.0043	.0042	.0040
8.0	.0053	.0051	.0049	.0047	.0044	.0042	.0040
9.0	.0055	.0053	.0050	.0048	.0045	.0043	.0040
10.0	.0057	.0054	.0051	.0048	.0045	.0042	.0040
15.0	.0060	.0056	.0051	.0046	.0042	.0038	.0034
20.0	.0059	.0053	.0047	.0041	.0036	.0031	.0027
25.0	.0055	.0048	.0041	.0035	.0030	.0025	.0020
30.0	.0050	.0042	.0035	.0029	.0024	.0019	.0015
35.0	.0045	.0037	.0030	.0023	.0018	.0014	.0011
40.0	.0040	.0031	.0024	.0019	.0014	.0011	.0008
45.0	.0035	.0027	.0020	.0015	.0011	.0008	.0006
50.0	.0030	.0022	.0016	.0012	.0008	.0006	.0004
60.0	.0022	.0016	.0011	.0007	.0005	.0003	.0002
70.0	.0016	.0011	.0007	.0004	.0003	.0002	.0001
75.0	.0014	.0009	.0006	.0003	.0002	.0001	.0001
80.0	.0012	.0007	.0004	.0003	.0001	.0001	.0000
90.0	.0008	.0005	.0003	.0002	.0001	.0000	.0000
100.0	.0006	.0003	.0002	.0001	.0000	.0000	.0000

TABLE 13 (continued)

N	KA= .42	.44	.46	.48	.50	.52	.54
2.0	.0020	.0020	.0020	.0019	.0019	.0019	.0018
3.0	.0028	.0027	.0027	.0026	.0026	.0025	.0024
4.0	.0032	.0032	.0031	.0030	.0029	.0028	.0027
5.0	.0035	.0034	.0033	.0032	.0031	.0030	.0028
6.0	.0037	.0036	.0034	.0033	.0031	.0030	.0028
7.0	.0038	.0036	.0034	.0033	.0031	.0029	.0027
8.0	.0038	.0036	.0034	.0032	.0030	.0028	.0026
9.0	.0038	.0035	.0033	.0031	.0028	.0026	.0024
10.0	.0037	.0034	.0032	.0029	.0027	.0025	.0022
15.0	.0030	.0027	.0024	.0021	.0018	.0016	.0014
20.0	.0023	.0020	.0017	.0014	.0012	.0010	.0008
25.0	.0017	.0014	.0011	.0009	.0007	.0005	.0004
30.0	.0012	.0009	.0007	.0005	.0004	.0003	.0002
35.0	.0008	.0006	.0005	.0003	.0002	.0002	.0001
40.0	.0006	.0004	.0003	.0002	.0001	.0001	.0001
45.0	.0004	.0003	.0002	.0001	.0001	.0000	.0000
50.0	.0003	.0002	.0001	.0001	.0000	.0000	.0000
60.0	.0001	.0001	.0000	.0000	.0000	.0000	.0000
70.0	.0001	.0000	.0000	.0000	.0000	.0000	.0000
75.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
80.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
90.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
100.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000

TABLE 13 (continued)

N	KA= .56	.58	.60	.62	.64	.66	.68
2.0	.0018	.0017	.0017	.0017	.0016	.0016	.0015
3.0	.0024	.0023	.0023	.0022	.0021	.0021	.0020
4.0	.0027	.0026	.0025	.0024	.0023	.0022	.0021
5.0	.0027	.0026	.0025	.0024	.0023	.0021	.0020
6.0	.0027	.0025	.0024	.0023	.0021	.0020	.0019
7.0	.0026	.0024	.0022	.0021	.0019	.0018	.0017
8.0	.0024	.0022	.0021	.0019	.0017	.0016	.0014
9.0	.0022	.0020	.0019	.0017	.0015	.0014	.0012
10.0	.0020	.0018	.0017	.0015	.0013	.0012	.0011
15.0	.0012	.0010	.0009	.0007	.0006	.0005	.0004
20.0	.0006	.0005	.0004	.0003	.0003	.0002	.0002
25.0	.0003	.0002	.0002	.0001	.0001	.0001	.0001
30.0	.0002	.0001	.0001	.0001	.0000	.0000	.0000
35.0	.0001	.0001	.0000	.0000	.0000	.0000	.0000
40.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
45.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
50.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
60.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
70.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
75.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
80.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
90.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
100.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000

TABLE 13 (continued)

N	KA= .70	.72	.74	.76	.78	.80	.82
2.0	.0015	.0014	.0014	.0014	.0013	.0013	.0012
3.0	.0019	.0019	.0018	.0018	.0017	.0016	.0016
4.0	.0020	.0019	.0018	.0018	.0017	.0016	.0015
5.0	.0019	.0018	.0017	.0016	.0015	.0014	.0013
6.0	.0017	.0016	.0015	.0014	.0013	.0012	.0011
7.0	.0015	.0014	.0013	.0012	.0011	.0010	.0009
8.0	.0013	.0012	.0011	.0010	.0009	.0008	.0007
9.0	.0011	.0010	.0009	.0008	.0007	.0006	.0005
10.0	.0009	.0008	.0007	.0006	.0006	.0005	.0004
15.0	.0004	.0003	.0002	.0002	.0002	.0001	.0001
20.0	.0001	.0001	.0001	.0001	.0000	.0000	.0000
25.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
30.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
35.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
40.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
45.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
50.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
60.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
70.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
75.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
80.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
90.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
100.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000

TABLE 13 (continued)

N	KA= .84	.86	.88	.90	.92	.94	.96
2.0	.0012	.0011	.0011	.0011	.0010	.0010	.0009
3.0	.0015	.0014	.0014	.0013	.0013	.0012	.0012
4.0	.0014	.0014	.0013	.0012	.0011	.0011	.0010
5.0	.0012	.0012	.0011	.0010	.0009	.0009	.0008
6.0	.0010	.0009	.0009	.0008	.0007	.0006	.0006
7.0	.0008	.0007	.0007	.0006	.0005	.0005	.0004
8.0	.0006	.0006	.0005	.0004	.0004	.0003	.0003
9.0	.0005	.0004	.0004	.0003	.0003	.0002	.0002
10.0	.0004	.0003	.0003	.0002	.0002	.0002	.0001
15.0	.0001	.0001	.0000	.0000	.0000	.0000	.0000
20.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
25.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
30.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
35.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
40.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
45.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
50.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
60.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
70.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
75.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
80.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
90.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
100.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000



TABLE 13 (continued)

N	KA= .98	1.00	1.02	1.04	1.06	1.08	1.10
2.0	.0009	.0009	.0008	.0008	.0008	.0007	.0007
3.0	.0011	.0011	.0010	.0010	.0009	.0009	.0008
4.0	.0010	.0009	.0008	.0008	.0007	.0007	.0006
5.0	.0007	.0007	.0006	.0006	.0005	.0005	.0004
6.0	.0005	.0005	.0004	.0004	.0003	.0003	.0003
7.0	.0004	.0003	.0003	.0003	.0002	.0002	.0002
8.0	.0003	.0002	.0002	.0002	.0001	.0001	.0001
9.0	.0002	.0001	.0001	.0001	.0001	.0001	.0001
10.0	.0001	.0001	.0001	.0001	.0001	.0000	.0000
15.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
20.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
25.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
30.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
35.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
40.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
45.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
50.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
60.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
70.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
75.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
80.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
90.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
100.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000

TABLE 14  
TABLE OF THE JOINT DISTRIBUTION OF  $\bar{X}$  AND  $X(N)$

PG = .005

N	KA = .00	.02	.04	.06	.08	.10	.12
2.0	.0097	.0098	.0099	.0100	.0100	.0101	.0102
3.0	.0145	.0146	.0146	.0146	.0147	.0147	.0147
4.0	.0189	.0188	.0188	.0187	.0187	.0186	.0185
5.0	.0229	.0228	.0226	.0225	.0223	.0221	.0218
6.0	.0267	.0265	.0262	.0259	.0256	.0252	.0249
7.0	.0303	.0300	.0296	.0291	.0287	.0282	.0276
8.0	.0339	.0334	.0328	.0322	.0316	.0309	.0302
9.0	.0373	.0366	.0359	.0351	.0343	.0335	.0326
10.0	.0406	.0398	.0389	.0379	.0370	.0359	.0348
15.0	.0562	.0544	.0525	.0505	.0484	.0463	.0440
20.0	.0706	.0676	.0646	.0613	.0580	.0545	.0510
25.0	.0841	.0799	.0754	.0708	.0661	.0613	.0564
30.0	.0969	.0913	.0854	.0793	.0730	.0668	.0605
35.0	.1092	.1020	.0945	.0868	.0791	.0713	.0637
40.0	.1209	.1121	.1030	.0937	.0843	.0750	.0660
45.0	.1321	.1217	.1109	.0998	.0888	.0781	.0677
50.0	.1430	.1308	.1182	.1054	.0928	.0805	.0688
60.0	.1634	.1476	.1314	.1151	.0991	.0839	.0698
70.0	.1825	.1629	.1429	.1230	.1038	.0858	.0694
75.0	.1916	.1701	.1481	.1264	.1056	.0862	.0688
80.0	.2004	.1769	.1529	.1294	.1070	.0864	.0681
90.0	.2171	.1896	.1618	.1347	.1092	.0862	.0661
100.0	.2328	.2012	.1695	.1388	.1105	.0852	.0637

TABLE 14 (continued)

N	KA= .14	.16	.18	.20	.22	.24	.26
2.0	.0102	.0103	.0103	.0103	.0104	.0104	.0104
3.0	.0146	.0146	.0146	.0145	.0144	.0144	.0143
4.0	.0183	.0182	.0180	.0179	.0177	.0175	.0172
5.0	.0216	.0213	.0210	.0207	.0203	.0200	.0196
6.0	.0245	.0240	.0236	.0231	.0226	.0220	.0215
7.0	.0271	.0265	.0258	.0252	.0245	.0237	.0230
8.0	.0294	.0287	.0278	.0270	.0261	.0251	.0242
9.0	.0316	.0306	.0296	.0285	.0274	.0263	.0252
10.0	.0336	.0324	.0312	.0299	.0286	.0273	.0260
15.0	.0418	.0394	.0371	.0347	.0323	.0300	.0277
20.0	.0475	.0439	.0404	.0370	.0336	.0304	.0272
25.0	.0516	.0468	.0422	.0377	.0334	.0294	.0257
30.0	.0544	.0485	.0428	.0374	.0324	.0278	.0236
35.0	.0563	.0492	.0426	.0364	.0308	.0257	.0212
40.0	.0574	.0493	.0418	.0350	.0289	.0235	.0189
45.0	.0579	.0489	.0406	.0333	.0268	.0213	.0167
50.0	.0579	.0480	.0392	.0314	.0248	.0192	.0146
60.0	.0569	.0456	.0358	.0275	.0207	.0153	.0110
70.0	.0549	.0425	.0321	.0236	.0170	.0119	.0082
75.0	.0536	.0408	.0302	.0218	.0154	.0105	.0070
80.0	.0523	.0391	.0284	.0201	.0138	.0092	.0060
90.0	.0492	.0356	.0249	.0169	.0111	.0071	.0044
100.0	.0461	.0322	.0217	.0142	.0089	.0054	.0032

TABLE 14 (continued)

N	K <sub>A</sub> = .28	.30	.32	.34	.36	.38	.40
2.0	.0104	.0104	.0103	.0103	.0103	.0102	.0102
3.0	.0142	.0141	.0139	.0138	.0136	.0135	.0133
4.0	.0170	.0167	.0165	.0162	.0159	.0155	.0152
5.0	.0192	.0188	.0183	.0178	.0174	.0169	.0164
6.0	.0209	.0203	.0196	.0190	.0183	.0177	.0170
7.0	.0222	.0214	.0206	.0198	.0189	.0181	.0173
8.0	.0232	.0223	.0213	.0203	.0193	.0183	.0173
9.0	.0240	.0229	.0217	.0205	.0193	.0182	.0170
10.0	.0246	.0233	.0219	.0206	.0192	.0180	.0167
15.0	.0255	.0233	.0212	.0192	.0173	.0155	.0138
20.0	.0243	.0215	.0189	.0165	.0143	.0123	.0105
25.0	.0222	.0191	.0162	.0137	.0114	.0094	.0077
30.0	.0198	.0165	.0135	.0110	.0089	.0071	.0056
35.0	.0173	.0140	.0111	.0087	.0068	.0052	.0039
40.0	.0150	.0117	.0090	.0068	.0051	.0038	.0027
45.0	.0128	.0097	.0072	.0053	.0038	.0027	.0019
50.0	.0109	.0080	.0058	.0041	.0028	.0019	.0013
60.0	.0078	.0054	.0036	.0024	.0015	.0010	.0006
70.0	.0054	.0035	.0022	.0014	.0008	.0005	.0003
75.0	.0045	.0029	.0018	.0010	.0006	.0003	.0002
80.0	.0038	.0023	.0014	.0008	.0004	.0002	.0001
90.0	.0026	.0015	.0008	.0004	.0002	.0001	.0001
100.0	.0018	.0010	.0005	.0003	.0001	.0001	.0000

TABLE 14 (continued)

N	KA = .42	.44	.46	.48	.50	.52	.54
2.0	.0101	.0100	.0100	.0099	.0098	.0097	.0096
3.0	.0131	.0129	.0127	.0125	.0122	.0120	.0117
4.0	.0148	.0145	.0141	.0137	.0133	.0129	.0125
5.0	.0158	.0153	.0148	.0142	.0137	.0131	.0126
6.0	.0163	.0156	.0149	.0142	.0136	.0129	.0122
7.0	.0164	.0156	.0147	.0139	.0131	.0123	.0115
8.0	.0163	.0153	.0143	.0134	.0125	.0116	.0108
9.0	.0159	.0148	.0138	.0127	.0118	.0108	.0099
10.0	.0155	.0143	.0131	.0120	.0110	.0100	.0090
15.0	.0122	.0108	.0095	.0082	.0071	.0062	.0053
20.0	.0090	.0075	.0063	.0052	.0043	.0035	.0029
25.0	.0063	.0051	.0040	.0032	.0025	.0019	.0015
30.0	.0043	.0033	.0025	.0019	.0014	.0010	.0008
35.0	.0029	.0021	.0016	.0011	.0008	.0006	.0004
40.0	.0020	.0014	.0010	.0006	.0004	.0003	.0002
45.0	.0013	.0009	.0006	.0004	.0002	.0001	.0001
50.0	.0008	.0005	.0003	.0002	.0001	.0001	.0000
60.0	.0004	.0002	.0001	.0001	.0000	.0000	.0000
70.0	.0002	.0001	.0000	.0000	.0000	.0000	.0000
75.0	.0001	.0001	.0000	.0000	.0000	.0000	.0000
80.0	.0001	.0000	.0000	.0000	.0000	.0000	.0000
90.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
100.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000

TABLE 14 (continued)

N	KA=	.56	.58	.60	.62	.64	.66	.68
2.0		.0095	.0094	.0092	.0091	.0090	.0088	.0087
3.0		.0115	.0112	.0110	.0107	.0104	.0101	.0098
4.0		.0121	.0117	.0113	.0109	.0105	.0101	.0096
5.0		.0120	.0115	.0110	.0104	.0099	.0094	.0089
6.0		.0115	.0109	.0102	.0096	.0090	.0084	.0079
7.0		.0108	.0101	.0094	.0087	.0080	.0074	.0068
8.0		.0099	.0092	.0084	.0077	.0070	.0064	.0058
9.0		.0091	.0082	.0075	.0068	.0061	.0055	.0049
10.0		.0082	.0073	.0066	.0059	.0052	.0046	.0041
15.0		.0045	.0038	.0032	.0027	.0022	.0019	.0015
20.0		.0023	.0018	.0015	.0011	.0009	.0007	.0005
25.0		.0011	.0009	.0006	.0005	.0003	.0002	.0002
30.0		.0005	.0004	.0003	.0002	.0001	.0001	.0001
35.0		.0003	.0002	.0001	.0001	.0000	.0000	.0000
40.0		.0001	.0001	.0000	.0000	.0000	.0000	.0000
45.0		.0001	.0000	.0000	.0000	.0000	.0000	.0000
50.0		.0000	.0000	.0000	.0000	.0000	.0000	.0000
60.0		.0000	.0000	.0000	.0000	.0000	.0000	.0000
70.0		.0000	.0000	.0000	.0000	.0000	.0000	.0000
75.0		.0000	.0000	.0000	.0000	.0000	.0000	.0000
80.0		.0000	.0000	.0000	.0000	.0000	.0000	.0000
90.0		.0000	.0000	.0000	.0000	.0000	.0000	.0000
100.0		.0000	.0000	.0000	.0000	.0000	.0000	.0000



TABLE 14 (continued)

N	KA= .70	.72	.74	.76	.78	.80	.82
2.0	.0086	.0084	.0083	.0081	.0079	.0078	.0076
3.0	.0095	.0093	.0090	.0087	.0084	.0081	.0078
4.0	.0092	.0088	.0084	.0080	.0076	.0073	.0069
5.0	.0084	.0079	.0074	.0070	.0065	.0061	.0057
6.0	.0073	.0068	.0063	.0058	.0054	.0049	.0045
7.0	.0062	.0057	.0052	.0047	.0043	.0039	.0035
8.0	.0052	.0047	.0043	.0038	.0034	.0030	.0027
9.0	.0044	.0039	.0034	.0030	.0027	.0023	.0020
10.0	.0036	.0031	.0027	.0024	.0021	.0018	.0015
15.0	.0012	.0010	.0008	.0007	.0005	.0004	.0003
20.0	.0004	.0003	.0002	.0002	.0001	.0001	.0001
25.0	.0001	.0001	.0001	.0000	.0000	.0000	.0000
30.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
35.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
40.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
45.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
50.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
60.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
70.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
75.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
80.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
90.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
100.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000

TABLE 14 (continued)

N	KA= .84	.86	.88	.90	.92	.94	.96
2.0	.0074	.0073	.0071	.0069	.0067	.0066	.0064
3.0	.0075	.0072	.0069	.0066	.0064	.0061	.0058
4.0	.0065	.0062	.0058	.0055	.0052	.0048	.0045
5.0	.0053	.0049	.0046	.0042	.0039	.0036	.0033
6.0	.0041	.0038	.0034	.0031	.0028	.0026	.0023
7.0	.0032	.0028	.0025	.0023	.0020	.0018	.0016
8.0	.0024	.0021	.0018	.0016	.0014	.0012	.0011
9.0	.0018	.0015	.0013	.0011	.0010	.0008	.0007
10.0	.0013	.0011	.0009	.0008	.0007	.0006	.0005
15.0	.0003	.0002	.0002	.0001	.0001	.0001	.0001
20.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
25.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
30.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
35.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
40.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
45.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
50.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
60.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
70.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
75.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
80.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
90.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
100.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000

TABLE 14 (continued)

N	KA= .98	1.00	1.02	1.04	1.06	1.08	1.10
2.0	.0062	.0060	.0059	.0057	.0055	.0053	.0052
3.0	.0056	.0053	.0051	.0048	.0046	.0043	.0041
4.0	.0043	.0040	.0037	.0035	.0032	.0030	.0028
5.0	.0030	.0028	.0025	.0023	.0021	.0019	.0017
6.0	.0021	.0019	.0017	.0015	.0013	.0012	.0010
7.0	.0014	.0012	.0011	.0009	.0008	.0007	.0006
8.0	.0009	.0008	.0007	.0006	.0005	.0004	.0004
9.0	.0006	.0005	.0004	.0004	.0003	.0002	.0002
10.0	.0004	.0003	.0003	.0002	.0002	.0001	.0001
15.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
20.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
25.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
30.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
35.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
40.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
45.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
50.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
60.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
70.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
75.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
80.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
90.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
100.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000

TABLE 15  
TABLE OF THE JOINT DISTRIBUTION OF  $\bar{X}$  AND  $X(N)$

PO = .010							
N	KA = .00	.02	.04	.06	.08	.10	.12
2.0	.0194	.0195	.0196	.0197	.0198	.0199	.0200
3.0	.0286	.0286	.0286	.0286	.0285	.0285	.0284
4.0	.0368	.0366	.0364	.0362	.0360	.0358	.0355
5.0	.0443	.0440	.0436	.0431	.0427	.0422	.0416
6.0	.0514	.0508	.0502	.0495	.0488	.0480	.0471
7.0	.0582	.0573	.0564	.0554	.0544	.0533	.0521
8.0	.0646	.0635	.0623	.0610	.0596	.0582	.0567
9.0	.0709	.0695	.0679	.0663	.0646	.0628	.0609
10.0	.0769	.0752	.0733	.0713	.0692	.0670	.0647
15.0	.1049	.1012	.0974	.0933	.0891	.0848	.0804
20.0	.1299	.1240	.1179	.1115	.1050	.0983	.0915
25.0	.1527	.1444	.1358	.1269	.1178	.1086	.0995
30.0	.1737	.1629	.1516	.1400	.1283	.1166	.1051
35.0	.1932	.1796	.1656	.1512	.1369	.1226	.1088
40.0	.2113	.1949	.1780	.1609	.1438	.1272	.1111
45.0	.2282	.2089	.1891	.1692	.1495	.1304	.1122
50.0	.2439	.2218	.1991	.1763	.1540	.1326	.1124
60.0	.2725	.2444	.2159	.1876	.1603	.1345	.1108
70.0	.2976	.2636	.2293	.1957	.1636	.1340	.1073
75.0	.3090	.2721	.2350	.1987	.1645	.1330	.1051
80.0	.3198	.2800	.2400	.2012	.1648	.1317	.1026
90.0	.3394	.2938	.2484	.2047	.1643	.1283	.0973
100.0	.3568	.3056	.2549	.2066	.1626	.1240	.0916

TABLE 15 (continued)

N	KA = .14	.16	.18	.20	.22	.24	.26
2.0	.0200	.0201	.0201	.0202	.0202	.0202	.0202
3.0	.0283	.0282	.0281	.0279	.0277	.0275	.0273
4.0	.0351	.0348	.0344	.0340	.0336	.0331	.0326
5.0	.0410	.0404	.0398	.0391	.0383	.0375	.0367
6.0	.0462	.0453	.0443	.0433	.0422	.0411	.0399
7.0	.0509	.0496	.0483	.0469	.0455	.0440	.0425
8.0	.0551	.0535	.0517	.0500	.0482	.0463	.0444
9.0	.0589	.0569	.0548	.0526	.0505	.0482	.0460
10.0	.0624	.0600	.0575	.0549	.0524	.0498	.0471
15.0	.0759	.0714	.0668	.0623	.0578	.0533	.0490
20.0	.0848	.0781	.0714	.0650	.0587	.0528	.0471
25.0	.0905	.0816	.0731	.0649	.0572	.0500	.0434
30.0	.0938	.0830	.0728	.0632	.0543	.0462	.0390
35.0	.0955	.0829	.0712	.0604	.0507	.0420	.0344
40.0	.0958	.0817	.0687	.0570	.0467	.0377	.0300
45.0	.0952	.0797	.0657	.0533	.0426	.0335	.0260
50.0	.0938	.0771	.0623	.0495	.0386	.0296	.0223
60.0	.0896	.0710	.0551	.0419	.0312	.0228	.0162
70.0	.0840	.0643	.0480	.0350	.0249	.0173	.0117
75.0	.0810	.0609	.0446	.0318	.0221	.0150	.0098
80.0	.0779	.0576	.0414	.0289	.0196	.0130	.0083
90.0	.0716	.0511	.0354	.0237	.0154	.0097	.0059
100.0	.0654	.0451	.0301	.0193	.0120	.0072	.0041



TABLE 15 (continued)

N	KA= .28	.30	.32	.34	.36	.38	.40
2.0	.0202	.0201	.0201	.0200	.0200	.0199	.0198
3.0	.0271	.0268	.0265	.0262	.0259	.0256	.0252
4.0	.0321	.0316	.0310	.0304	.0297	.0291	.0284
5.0	.0359	.0350	.0341	.0332	.0322	.0312	.0302
6.0	.0387	.0375	.0363	.0350	.0337	.0324	.0311
7.0	.0409	.0393	.0377	.0361	.0345	.0329	.0312
8.0	.0425	.0406	.0387	.0367	.0348	.0329	.0310
9.0	.0437	.0414	.0392	.0369	.0347	.0325	.0303
10.0	.0445	.0419	.0393	.0368	.0343	.0318	.0295
15.0	.0448	.0408	.0369	.0333	.0298	.0266	.0235
20.0	.0417	.0367	.0321	.0279	.0240	.0205	.0174
25.0	.0373	.0317	.0268	.0224	.0186	.0153	.0124
30.0	.0325	.0268	.0219	.0176	.0141	.0111	.0087
35.0	.0278	.0222	.0175	.0137	.0105	.0080	.0060
40.0	.0236	.0182	.0139	.0105	.0077	.0056	.0040
45.0	.0198	.0148	.0109	.0079	.0057	.0040	.0027
50.0	.0165	.0120	.0086	.0060	.0041	.0028	.0018
60.0	.0113	.0077	.0052	.0034	.0022	.0013	.0008
70.0	.0077	.0049	.0031	.0019	.0011	.0006	.0004
75.0	.0063	.0039	.0024	.0014	.0008	.0004	.0002
80.0	.0052	.0031	.0018	.0010	.0006	.0003	.0002
90.0	.0034	.0020	.0011	.0006	.0003	.0001	.0001
100.0	.0023	.0012	.0006	.0003	.0001	.0001	.0000



TABLE 15 (continued)

N	KA= .42	.44	.46	.48	.50	.52	.54
2.0	.0197	.0196	.0194	.0193	.0191	.0189	.0188
3.0	.0248	.0244	.0240	.0236	.0231	.0227	.0222
4.0	.0277	.0270	.0262	.0255	.0247	.0240	.0232
5.0	.0292	.0281	.0271	.0260	.0250	.0239	.0229
6.0	.0297	.0284	.0271	.0257	.0244	.0231	.0219
7.0	.0296	.0280	.0264	.0249	.0234	.0219	.0204
8.0	.0291	.0273	.0255	.0237	.0220	.0204	.0188
9.0	.0282	.0262	.0242	.0224	.0205	.0188	.0172
10.0	.0272	.0250	.0229	.0209	.0190	.0172	.0155
15.0	.0207	.0182	.0159	.0137	.0119	.0102	.0087
20.0	.0147	.0123	.0102	.0084	.0069	.0056	.0045
25.0	.0100	.0080	.0063	.0050	.0039	.0030	.0023
30.0	.0067	.0051	.0039	.0029	.0021	.0015	.0011
35.0	.0044	.0032	.0023	.0016	.0011	.0008	.0005
40.0	.0029	.0020	.0014	.0009	.0006	.0004	.0003
45.0	.0018	.0012	.0008	.0005	.0003	.0002	.0001
50.0	.0012	.0008	.0005	.0003	.0002	.0001	.0001
60.0	.0005	.0003	.0002	.0001	.0000	.0000	.0000
70.0	.0002	.0001	.0001	.0000	.0000	.0000	.0000
75.0	.0001	.0001	.0000	.0000	.0000	.0000	.0000
80.0	.0001	.0000	.0000	.0000	.0000	.0000	.0000
90.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
100.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000

TABLE 15 (continued)

N	KA=	.56	.58	.60	.62	.64	.66	.68
2.0		.0186	.0184	.0181	.0179	.0177	.0174	.0171
3.0		.0217	.0212	.0206	.0201	.0196	.0190	.0185
4.0		.0224	.0216	.0208	.0200	.0192	.0184	.0176
5.0		.0218	.0208	.0198	.0188	.0178	.0168	.0158
6.0		.0206	.0194	.0182	.0170	.0159	.0148	.0138
7.0		.0190	.0177	.0164	.0152	.0140	.0128	.0118
8.0		.0173	.0159	.0146	.0133	.0121	.0109	.0099
9.0		.0156	.0142	.0128	.0115	.0103	.0092	.0082
10.0		.0139	.0125	.0111	.0099	.0088	.0077	.0068
15.0		.0073	.0062	.0052	.0043	.0036	.0029	.0024
20.0		.0036	.0028	.0022	.0017	.0014	.0010	.0008
25.0		.0017	.0013	.0009	.0007	.0005	.0004	.0003
30.0		.0008	.0006	.0004	.0003	.0002	.0001	.0001
35.0		.0004	.0002	.0002	.0001	.0001	.0000	.0000
40.0		.0002	.0001	.0001	.0000	.0000	.0000	.0000
45.0		.0001	.0000	.0000	.0000	.0000	.0000	.0000
50.0		.0000	.0000	.0000	.0000	.0000	.0000	.0000
60.0		.0000	.0000	.0000	.0000	.0000	.0000	.0000
70.0		.0000	.0000	.0000	.0000	.0000	.0000	.0000
75.0		.0000	.0000	.0000	.0000	.0000	.0000	.0000
80.0		.0000	.0000	.0000	.0000	.0000	.0000	.0000
90.0		.0000	.0000	.0000	.0000	.0000	.0000	.0000
100.0		.0000	.0000	.0000	.0000	.0000	.0000	.0000

TABLE 15 (continued)

N	KA= .70	.72	.74	.76	.78	.80	.82
2.0	.0169	.0166	.0163	.0160	.0157	.0154	.0151
3.0	.0179	.0174	.0168	.0162	.0157	.0151	.0145
4.0	.0168	.0161	.0153	.0145	.0138	.0131	.0124
5.0	.0149	.0140	.0131	.0123	.0115	.0107	.0100
6.0	.0128	.0118	.0109	.0101	.0093	.0085	.0078
7.0	.0108	.0098	.0089	.0081	.0073	.0066	.0059
8.0	.0089	.0080	.0072	.0064	.0057	.0050	.0044
9.0	.0073	.0064	.0057	.0050	.0044	.0038	.0033
10.0	.0059	.0052	.0045	.0039	.0033	.0028	.0024
15.0	.0019	.0016	.0013	.0010	.0008	.0006	.0005
20.0	.0006	.0004	.0003	.0002	.0002	.0001	.0001
25.0	.0002	.0001	.0001	.0001	.0000	.0000	.0000
30.0	.0001	.0000	.0000	.0000	.0000	.0000	.0000
35.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
40.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
45.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
50.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
60.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
70.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
75.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
80.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
90.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
100.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000

TABLE 15 (continued)

N	KA= .84	.86	.88	.90	.92	.94	.96
2.0	.0148	.0144	.0141	.0138	.0134	.0131	.0127
3.0	.0140	.0134	.0129	.0124	.0118	.0113	.0108
4.0	.0117	.0110	.0104	.0098	.0092	.0086	.0081
5.0	.0093	.0086	.0079	.0073	.0067	.0062	.0057
6.0	.0071	.0064	.0058	.0053	.0048	.0043	.0039
7.0	.0053	.0047	.0042	.0037	.0033	.0029	.0026
8.0	.0039	.0034	.0030	.0026	.0023	.0020	.0017
9.0	.0029	.0025	.0021	.0018	.0015	.0013	.0011
10.0	.0021	.0017	.0015	.0012	.0010	.0009	.0007
15.0	.0004	.0003	.0002	.0002	.0001	.0001	.0001
20.0	.0001	.0000	.0000	.0000	.0000	.0000	.0000
25.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
30.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
35.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
40.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
45.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
50.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
60.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
70.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
75.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
80.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
90.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
100.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000



TABLE 15 (continued)

N	KA= .98	1.00	1.02	1.04	1.06	1.08	1.10
2.0	.0124	.0121	.0117	.0114	.0110	.0107	.0103
3.0	.0103	.0098	.0093	.0088	.0084	.0079	.0075
4.0	.0075	.0070	.0065	.0061	.0056	.0052	.0048
5.0	.0052	.0047	.0043	.0039	.0036	.0032	.0029
6.0	.0035	.0031	.0028	.0025	.0022	.0019	.0017
7.0	.0023	.0020	.0017	.0015	.0013	.0011	.0010
8.0	.0015	.0012	.0011	.0009	.0008	.0007	.0005
9.0	.0009	.0008	.0007	.0005	.0004	.0004	.0003
10.0	.0006	.0005	.0004	.0003	.0003	.0002	.0002
15.0	.0001	.0000	.0000	.0000	.0000	.0000	.0000
20.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
25.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
30.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
35.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
40.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
45.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
50.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
60.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
70.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
75.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
80.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
90.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
100.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000



TABLE 16  
TABLE OF THE JOINT DISTRIBUTION OF  $\bar{X}$  AND  $X(N)$

PO= .020

N	KA= .00	.02	.04	.06	.08	.10	.12
2.0	.0387	.0388	.0389	.0390	.0391	.0391	.0392
3.0	.0558	.0557	.0555	.0553	.0551	.0549	.0546
4.0	.0708	.0703	.0698	.0692	.0686	.0679	.0672
5.0	.0845	.0836	.0826	.0816	.0804	.0792	.0780
6.0	.0972	.0958	.0943	.0927	.0911	.0893	.0875
7.0	.1092	.1072	.1052	.1030	.1007	.0983	.0959
8.0	.1205	.1180	.1153	.1125	.1096	.1065	.1034
9.0	.1312	.1281	.1248	.1214	.1178	.1140	.1102
10.0	.1415	.1378	.1338	.1297	.1254	.1209	.1163
15.0	.1873	.1800	.1723	.1644	.1562	.1479	.1394
20.0	.2259	.2145	.2028	.1907	.1784	.1660	.1536
25.0	.2588	.2433	.2274	.2110	.1946	.1782	.1619
30.0	.2874	.2676	.2473	.2268	.2062	.1859	.1661
35.0	.3122	.2882	.2636	.2389	.2144	.1904	.1674
40.0	.3339	.3057	.2769	.2482	.2199	.1925	.1666
45.0	.3530	.3206	.2877	.2551	.2232	.1928	.1642
50.0	.3697	.3333	.2965	.2601	.2249	.1916	.1607
60.0	.3975	.3533	.3090	.2658	.2246	.1864	.1518
70.0	.4192	.3677	.3166	.2672	.2209	.1788	.1415
75.0	.4282	.3733	.3190	.2668	.2183	.1745	.1362
80.0	.4361	.3780	.3206	.2658	.2152	.1699	.1308
90.0	.4495	.3851	.3221	.2625	.2082	.1606	.1203
100.0	.4600	.3899	.3217	.2578	.2005	.1511	.1103

TABLE 16 (continued)

N	KA= .14	.16	.18	.20	.22	.24	.26
2.0	.0392	.0392	.0392	.0392	.0392	.0392	.0391
3.0	.0543	.0539	.0535	.0531	.0527	.0522	.0516
4.0	.0664	.0656	.0647	.0638	.0628	.0617	.0606
5.0	.0767	.0753	.0738	.0723	.0707	.0690	.0673
6.0	.0855	.0835	.0814	.0792	.0770	.0747	.0723
7.0	.0933	.0906	.0878	.0850	.0820	.0791	.0760
8.0	.1001	.0967	.0933	.0897	.0861	.0824	.0787
9.0	.1062	.1021	.0979	.0936	.0893	.0850	.0806
10.0	.1116	.1067	.1018	.0969	.0919	.0868	.0819
15.0	.1308	.1223	.1138	.1054	.0971	.0891	.0813
20.0	.1413	.1292	.1174	.1060	.0951	.0847	.0750
25.0	.1461	.1308	.1161	.1023	.0894	.0774	.0665
30.0	.1471	.1290	.1121	.0964	.0821	.0692	.0577
35.0	.1455	.1251	.1064	.0894	.0742	.0608	.0493
40.0	.1423	.1200	.0998	.0820	.0664	.0530	.0417
45.0	.1378	.1141	.0930	.0746	.0590	.0459	.0351
50.0	.1327	.1077	.0860	.0675	.0521	.0395	.0294
60.0	.1212	.0949	.0728	.0547	.0402	.0290	.0204
70.0	.1094	.0827	.0610	.0439	.0308	.0211	.0141
75.0	.1037	.0770	.0557	.0393	.0269	.0180	.0117
80.0	.0981	.0716	.0508	.0351	.0235	.0153	.0097
90.0	.0875	.0617	.0422	.0279	.0179	.0111	.0067
100.0	.0778	.0531	.0350	.0222	.0136	.0081	.0046

TABLE 16 (continued)

N	KA= .28	.30	.32	.34	.36	.38	.40
2.0	.0390	.0389	.0388	.0386	.0384	.0382	.0380
3.0	.0511	.0505	.0499	.0492	.0485	.0477	.0470
4.0	.0595	.0583	.0571	.0558	.0545	.0532	.0518
5.0	.0656	.0637	.0619	.0600	.0580	.0561	.0541
6.0	.0699	.0674	.0649	.0624	.0599	.0573	.0548
7.0	.0730	.0699	.0667	.0636	.0605	.0574	.0543
8.0	.0750	.0713	.0676	.0639	.0602	.0566	.0531
9.0	.0763	.0720	.0677	.0635	.0593	.0553	.0513
10.0	.0769	.0720	.0672	.0625	.0579	.0535	.0493
15.0	.0739	.0668	.0600	.0536	.0477	.0422	.0371
20.0	.0659	.0575	.0498	.0429	.0366	.0311	.0261
25.0	.0566	.0478	.0399	.0331	.0272	.0221	.0178
30.0	.0476	.0388	.0313	.0250	.0198	.0154	.0119
35.0	.0394	.0311	.0243	.0187	.0142	.0107	.0079
40.0	.0324	.0248	.0187	.0139	.0101	.0073	.0052
45.0	.0264	.0196	.0143	.0102	.0072	.0050	.0034
50.0	.0215	.0154	.0109	.0075	.0051	.0034	.0022
60.0	.0141	.0095	.0063	.0040	.0025	.0016	.0009
70.0	.0092	.0058	.0036	.0022	.0013	.0007	.0004
75.0	.0074	.0046	.0027	.0016	.0009	.0005	.0003
80.0	.0060	.0036	.0021	.0012	.0006	.0003	.0002
90.0	.0039	.0022	.0012	.0006	.0003	.0002	.0001
100.0	.0025	.0013	.0007	.0003	.0002	.0001	.0000

TABLE 16 (continued)

N	KA= .42	.44	.46	.48	.50	.52	.54
2.0	.0378	.0375	.0372	.0369	.0366	.0362	.0358
3.0	.0462	.0453	.0445	.0436	.0427	.0417	.0407
4.0	.0504	.0489	.0475	.0460	.0445	.0430	.0414
5.0	.0521	.0501	.0480	.0460	.0440	.0420	.0400
6.0	.0522	.0497	.0471	.0447	.0422	.0398	.0375
7.0	.0513	.0483	.0453	.0425	.0397	.0370	.0344
8.0	.0496	.0463	.0430	.0398	.0368	.0339	.0311
9.0	.0475	.0439	.0403	.0370	.0338	.0308	.0279
10.0	.0452	.0413	.0376	.0341	.0308	.0277	.0248
15.0	.0325	.0282	.0244	.0210	.0180	.0153	.0129
20.0	.0218	.0181	.0149	.0121	.0098	.0079	.0063
25.0	.0142	.0112	.0085	.0068	.0052	.0040	.0030
30.0	.0091	.0069	.0051	.0038	.0027	.0020	.0014
35.0	.0058	.0041	.0029	.0021	.0014	.0010	.0007
40.0	.0036	.0025	.0017	.0011	.0007	.0005	.0003
45.0	.0023	.0015	.0010	.0006	.0004	.0002	.0001
50.0	.0014	.0009	.0006	.0003	.0002	.0001	.0001
60.0	.0006	.0003	.0002	.0001	.0001	.0000	.0000
70.0	.0002	.0001	.0001	.0000	.0000	.0000	.0000
75.0	.0001	.0001	.0000	.0000	.0000	.0000	.0000
80.0	.0001	.0000	.0000	.0000	.0000	.0000	.0000
90.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
100.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000

TABLE 16 (continued)

N	KA= .56	.58	.60	.62	.64	.66	.68
2.0	.0354	.0350	.0346	.0341	.0336	.0331	.0326
3.0	.0397	.0387	.0377	.0367	.0356	.0345	.0335
4.0	.0399	.0384	.0368	.0353	.0338	.0323	.0308
5.0	.0380	.0361	.0342	.0323	.0305	.0287	.0270
6.0	.0352	.0329	.0308	.0287	.0267	.0247	.0229
7.0	.0319	.0295	.0272	.0250	.0229	.0209	.0191
8.0	.0285	.0260	.0237	.0215	.0194	.0175	.0157
9.0	.0252	.0227	.0204	.0182	.0163	.0144	.0128
10.0	.0222	.0197	.0175	.0154	.0135	.0119	.0103
15.0	.0108	.0090	.0075	.0062	.0051	.0041	.0034
20.0	.0050	.0039	.0030	.0024	.0018	.0014	.0010
25.0	.0022	.0017	.0012	.0009	.0006	.0004	.0003
30.0	.0010	.0007	.0005	.0003	.0002	.0001	.0001
35.0	.0004	.0003	.0002	.0001	.0001	.0000	.0000
40.0	.0002	.0001	.0001	.0000	.0000	.0000	.0000
45.0	.0001	.0000	.0000	.0000	.0000	.0000	.0000
50.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
60.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
70.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
75.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
80.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
90.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
100.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000

TABLE 16 (continued)

N	KA= .70	.72	.74	.76	.78	.80	.82
2.0	.0321	.0315	.0310	.0304	.0298	.0292	.0285
3.0	.0324	.0313	.0302	.0291	.0281	.0270	.0259
4.0	.0294	.0279	.0265	.0251	.0238	.0225	.0212
5.0	.0253	.0237	.0221	.0206	.0191	.0178	.0164
6.0	.0211	.0195	.0179	.0164	.0150	.0137	.0124
7.0	.0173	.0157	.0142	.0128	.0115	.0103	.0092
8.0	.0140	.0125	.0111	.0099	.0087	.0077	.0067
9.0	.0113	.0099	.0087	.0075	.0065	.0057	.0049
10.0	.0090	.0078	.0067	.0057	.0049	.0042	.0035
15.0	.0027	.0022	.0017	.0014	.0011	.0008	.0006
20.0	.0008	.0006	.0004	.0003	.0002	.0002	.0001
25.0	.0002	.0001	.0001	.0001	.0000	.0000	.0000
30.0	.0001	.0000	.0000	.0000	.0000	.0000	.0000
35.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
40.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
45.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
50.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
60.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
70.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
75.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
80.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
90.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
100.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000



TABLE 16 (continued)

N	KA=	.84	.86	.88	.90	.92	.94	.96
2.0		.0279	.0273	.0266	.0260	.0253	.0246	.0240
3.0		.0249	.0238	.0228	.0218	.0208	.0198	.0189
4.0		.0199	.0187	.0176	.0165	.0154	.0144	.0134
5.0		.0152	.0140	.0129	.0118	.0108	.0099	.0090
6.0		.0113	.0102	.0092	.0083	.0074	.0067	.0059
7.0		.0082	.0073	.0064	.0057	.0050	.0044	.0038
8.0		.0059	.0051	.0045	.0039	.0033	.0029	.0024
9.0		.0042	.0036	.0031	.0026	.0022	.0018	.0015
10.0		.0030	.0025	.0021	.0017	.0014	.0012	.0010
15.0		.0005	.0004	.0003	.0002	.0002	.0001	.0001
20.0		.0001	.0001	.0000	.0000	.0000	.0000	.0000
25.0		.0000	.0000	.0000	.0000	.0000	.0000	.0000
30.0		.0000	.0000	.0000	.0000	.0000	.0000	.0000
35.0		.0000	.0000	.0000	.0000	.0000	.0000	.0000
40.0		.0000	.0000	.0000	.0000	.0000	.0000	.0000
45.0		.0000	.0000	.0000	.0000	.0000	.0000	.0000
50.0		.0000	.0000	.0000	.0000	.0000	.0000	.0000
60.0		.0000	.0000	.0000	.0000	.0000	.0000	.0000
70.0		.0000	.0000	.0000	.0000	.0000	.0000	.0000
75.0		.0000	.0000	.0000	.0000	.0000	.0000	.0000
80.0		.0000	.0000	.0000	.0000	.0000	.0000	.0000
90.0		.0000	.0000	.0000	.0000	.0000	.0000	.0000
100.0		.0000	.0000	.0000	.0000	.0000	.0000	.0000

TABLE 16 (continued)

N	KA = .93	1.00	1.02	1.04	1.06	1.08	1.10
2.0	.0233	.0226	.0219	.0212	.0206	.0199	.0192
3.0	.0179	.0170	.0161	.0153	.0144	.0136	.0129
4.0	.0124	.0116	.0107	.0099	.0091	.0084	.0078
5.0	.0082	.0075	.0068	.0061	.0055	.0050	.0045
6.0	.0053	.0047	.0042	.0037	.0032	.0029	.0025
7.0	.0033	.0029	.0025	.0022	.0019	.0016	.0014
8.0	.0021	.0018	.0015	.0013	.0011	.0009	.0008
9.0	.0013	.0011	.0009	.0007	.0006	.0005	.0004
10.0	.0008	.0007	.0005	.0004	.0003	.0003	.0002
15.0	.0001	.0000	.0000	.0000	.0000	.0000	.0000
20.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
25.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
30.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
35.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
40.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
45.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
50.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
60.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
70.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
75.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
80.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
90.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
100.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000

TABLE 17  
TABLE OF THE JOINT DISTRIBUTION OF  $\bar{X}$  AND  $X(N)$

PC= .030

N	KA= .00	.02	.04	.06	.08	.10	.12
2.0	.0576	.0577	.0578	.0578	.0578	.0579	.0578
3.0	.0819	.0815	.0812	.0807	.0803	.0798	.0792
4.0	.1028	.1019	.1009	.0999	.0988	.0977	.0964
5.0	.1216	.1200	.1184	.1167	.1148	.1129	.1109
6.0	.1388	.1365	.1341	.1316	.1289	.1262	.1232
7.0	.1548	.1517	.1485	.1451	.1415	.1378	.1340
8.0	.1698	.1658	.1617	.1574	.1529	.1482	.1434
9.0	.1838	.1790	.1739	.1686	.1632	.1575	.1517
10.0	.1970	.1913	.1852	.1790	.1725	.1658	.1590
15.0	.2536	.2428	.2317	.2202	.2084	.1965	.1845
20.0	.2981	.2821	.2655	.2486	.2315	.2144	.1974
25.0	.3338	.3124	.2905	.2684	.2462	.2242	.2026
30.0	.3628	.3362	.3091	.2819	.2549	.2285	.2030
35.0	.3864	.3548	.3228	.2909	.2595	.2291	.2001
40.0	.4058	.3694	.3328	.2964	.2610	.2271	.1952
45.0	.4218	.3809	.3398	.2994	.2604	.2234	.1890
50.0	.4349	.3898	.3447	.3005	.2582	.2186	.1821
60.0	.4549	.4019	.3495	.2987	.2509	.2068	.1674
70.0	.4686	.4088	.3499	.2936	.2412	.1940	.1526
75.0	.4738	.4108	.3490	.2902	.2360	.1876	.1455
80.0	.4781	.4121	.3476	.2866	.2307	.1812	.1387
90.0	.4847	.4132	.3438	.2787	.2199	.1688	.1258
100.0	.4893	.4128	.3390	.2704	.2094	.1571	.1141

TABLE 17 (continued)

N	$K\lambda = .14$	.16	.18	.20	.22	.24	.26
2.0	.0573	.0578	.0577	.0576	.0575	.0573	.0572
3.0	.0787	.0780	.0773	.0766	.0758	.0750	.0741
4.0	.0951	.0938	.0923	.0908	.0892	.0876	.0858
5.0	.1087	.1065	.1042	.1018	.0993	.0968	.0942
6.0	.1202	.1171	.1139	.1105	.1071	.1036	.1001
7.0	.1300	.1259	.1218	.1175	.1131	.1087	.1042
8.0	.1385	.1334	.1282	.1230	.1176	.1123	.1069
9.0	.1457	.1397	.1335	.1273	.1210	.1147	.1084
10.0	.1520	.1449	.1378	.1306	.1234	.1162	.1091
15.0	.1724	.1604	.1486	.1370	.1256	.1147	.1041
20.0	.1806	.1643	.1485	.1333	.1189	.1053	.0927
25.0	.1818	.1618	.1428	.1250	.1085	.0934	.0797
30.0	.1786	.1557	.1343	.1148	.0971	.0813	.0673
35.0	.1729	.1476	.1247	.1040	.0858	.0699	.0562
40.0	.1656	.1387	.1147	.0935	.0752	.0596	.0466
45.0	.1576	.1295	.1049	.0836	.0656	.0507	.0385
50.0	.1493	.1204	.0955	.0745	.0571	.0430	.0318
60.0	.1328	.1033	.0788	.0588	.0430	.0308	.0216
70.0	.1174	.0882	.0647	.0463	.0323	.0220	.0146
75.0	.1102	.0814	.0586	.0411	.0281	.0187	.0121
80.0	.1034	.0751	.0530	.0364	.0243	.0158	.0100
90.0	.0911	.0639	.0435	.0287	.0184	.0114	.0068
100.0	.0802	.0545	.0358	.0227	.0139	.0082	.0047

TABLE 17 (continued)

N	KA= .28	.30	.32	.34	.36	.38	.40
2.0	.0570	.0567	.0565	.0562	.0559	.0555	.0552
3.0	.0732	.0722	.0712	.0701	.0690	.0678	.0666
4.0	.0841	.0822	.0803	.0784	.0763	.0743	.0722
5.0	.0915	.0887	.0859	.0831	.0802	.0773	.0743
6.0	.0965	.0928	.0891	.0854	.0817	.0779	.0742
7.0	.0996	.0951	.0906	.0860	.0815	.0771	.0727
8.0	.1015	.0961	.0907	.0855	.0803	.0752	.0702
9.0	.1022	.0960	.0900	.0840	.0782	.0726	.0671
10.0	.1021	.0952	.0885	.0820	.0756	.0695	.0637
15.0	.0941	.0846	.0756	.0672	.0595	.0523	.0458
20.0	.0810	.0703	.0605	.0517	.0439	.0370	.0309
25.0	.0674	.0565	.0470	.0387	.0315	.0255	.0204
30.0	.0552	.0447	.0359	.0284	.0223	.0173	.0133
35.0	.0447	.0350	.0271	.0208	.0157	.0117	.0086
40.0	.0359	.0273	.0204	.0151	.0110	.0079	.0055
45.0	.0288	.0212	.0154	.0109	.0077	.0053	.0036
50.0	.0231	.0165	.0115	.0079	.0054	.0036	.0023
60.0	.0148	.0099	.0065	.0042	.0026	.0016	.0010
70.0	.0095	.0060	.0037	.0022	.0013	.0007	.0004
75.0	.0076	.0047	.0028	.0016	.0009	.0005	.0003
80.0	.0061	.0036	.0021	.0012	.0006	.0003	.0002
90.0	.0039	.0022	.0012	.0006	.0003	.0002	.0001
100.0	.0026	.0013	.0007	.0003	.0002	.0001	.0000

TABLE 17 (continued)

N	KA= .42	.44	.46	.48	.50	.52	.54
2.0	.0547	.0543	.0538	.0533	.0528	.0522	.0516
3.0	.0654	.0641	.0627	.0614	.0600	.0585	.0571
4.0	.0701	.0679	.0657	.0635	.0613	.0591	.0568
5.0	.0714	.0684	.0654	.0625	.0596	.0567	.0538
6.0	.0705	.0669	.0633	.0597	.0563	.0529	.0496
7.0	.0684	.0641	.0600	.0560	.0521	.0484	.0448
8.0	.0654	.0607	.0562	.0518	.0477	.0437	.0400
9.0	.0619	.0569	.0521	.0475	.0432	.0392	.0354
10.0	.0582	.0529	.0479	.0432	.0389	.0348	.0311
15.0	.0398	.0344	.0296	.0253	.0215	.0182	.0153
20.0	.0257	.0212	.0173	.0140	.0113	.0090	.0071
25.0	.0162	.0127	.0099	.0076	.0058	.0044	.0033
30.0	.0101	.0075	.0056	.0041	.0030	.0021	.0015
35.0	.0062	.0045	.0032	.0022	.0015	.0010	.0007
40.0	.0039	.0026	.0018	.0012	.0008	.0005	.0003
45.0	.0024	.0016	.0010	.0006	.0004	.0002	.0001
50.0	.0015	.0009	.0006	.0003	.0002	.0001	.0001
60.0	.0006	.0003	.0002	.0001	.0001	.0000	.0000
70.0	.0002	.0001	.0001	.0000	.0000	.0000	.0000
75.0	.0001	.0001	.0000	.0000	.0000	.0000	.0000
80.0	.0001	.0000	.0000	.0000	.0000	.0000	.0000
90.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
100.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000



TABLE 17 (continued)

N	KA= .56	.58	.60	.62	.64	.66	.68
2.0	.0510	.0503	.0496	.0489	.0482	.0474	.0466
3.0	.0556	.0540	.0525	.0510	.0494	.0478	.0462
4.0	.0546	.0523	.0501	.0479	.0457	.0436	.0415
5.0	.0510	.0483	.0456	.0429	.0404	.0379	.0355
6.0	.0464	.0433	.0403	.0374	.0347	.0320	.0295
7.0	.0414	.0381	.0350	.0320	.0292	.0266	.0242
8.0	.0365	.0331	.0300	.0271	.0244	.0218	.0195
9.0	.0318	.0285	.0255	.0227	.0201	.0178	.0157
10.0	.0276	.0244	.0215	.0189	.0165	.0144	.0125
15.0	.0127	.0106	.0087	.0072	.0058	.0047	.0038
20.0	.0056	.0044	.0034	.0026	.0020	.0015	.0011
25.0	.0024	.0018	.0013	.0009	.0007	.0005	.0003
30.0	.0011	.0007	.0005	.0003	.0002	.0001	.0001
35.0	.0005	.0003	.0002	.0001	.0001	.0000	.0000
40.0	.0002	.0001	.0001	.0000	.0000	.0000	.0000
45.0	.0001	.0000	.0000	.0000	.0000	.0000	.0000
50.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
60.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
70.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
75.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
80.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
90.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
100.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000

TABLE 17 (continued)

N	KA= .70	.72	.74	.76	.78	.80	.82
2.0	.0458	.0450	.0441	.0432	.0423	.0414	.0404
3.0	.0446	.0431	.0415	.0399	.0383	.0368	.0353
4.0	.0394	.0374	.0354	.0334	.0315	.0297	.0279
5.0	.0331	.0309	.0288	.0267	.0247	.0229	.0211
6.0	.0272	.0249	.0228	.0208	.0189	.0172	.0156
7.0	.0219	.0197	.0177	.0159	.0142	.0127	.0113
8.0	.0174	.0154	.0137	.0121	.0106	.0093	.0081
9.0	.0137	.0120	.0104	.0091	.0078	.0067	.0058
10.0	.0108	.0093	.0079	.0068	.0057	.0049	.0041
15.0	.0030	.0024	.0019	.0015	.0012	.0009	.0007
20.0	.0008	.0006	.0005	.0003	.0002	.0002	.0001
25.0	.0002	.0002	.0001	.0001	.0000	.0000	.0000
30.0	.0001	.0000	.0000	.0000	.0000	.0000	.0000
35.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
40.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
45.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
50.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
60.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
70.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
75.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
80.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
90.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
100.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000

TABLE 17 (continued)

N	KA= .84	.86	.88	.90	.92	.94	.96
2.0	.0395	.0385	.0375	.0366	.0356	.0346	.0336
3.0	.0337	.0322	.0308	.0293	.0279	.0265	.0252
4.0	.0262	.0245	.0229	.0214	.0200	.0186	.0172
5.0	.0194	.0178	.0164	.0150	.0137	.0124	.0113
6.0	.0141	.0127	.0114	.0102	.0091	.0081	.0072
7.0	.0100	.0088	.0078	.0068	.0060	.0052	.0046
8.0	.0070	.0061	.0053	.0045	.0039	.0033	.0028
9.0	.0049	.0042	.0036	.0030	.0025	.0021	.0018
10.0	.0034	.0029	.0024	.0020	.0016	.0013	.0011
15.0	.0005	.0004	.0003	.0002	.0002	.0001	.0001
20.0	.0001	.0001	.0000	.0000	.0000	.0000	.0000
25.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
30.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
35.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
40.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
45.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
50.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
60.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
70.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
75.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
80.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
90.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
100.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000

TABLE 17 (continued)

N	KA= .92	1.00	1.02	1.04	1.06	1.08	1.10
2.0	.0326	.0316	.0306	.0296	.0286	.0276	.0266
3.0	.0239	.0226	.0214	.0202	.0190	.0179	.0168
4.0	.0160	.0148	.0136	.0126	.0116	.0106	.0097
5.0	.0102	.0093	.0084	.0075	.0068	.0061	.0054
6.0	.0064	.0057	.0050	.0044	.0039	.0034	.0029
7.0	.0040	.0034	.0029	.0025	.0022	.0019	.0016
8.0	.0024	.0020	.0017	.0015	.0012	.0010	.0008
9.0	.0015	.0012	.0010	.0008	.0007	.0006	.0004
10.0	.0009	.0007	.0006	.0005	.0004	.0003	.0002
15.0	.0001	.0001	.0000	.0000	.0000	.0000	.0000
20.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
25.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
30.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
35.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
40.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
45.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
50.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
60.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
70.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
75.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
80.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
90.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
100.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000

TABLE 18  
TABLE OF THE JOINT DISTRIBUTION OF  $\bar{X}$  AND  $X(N)$   
 $P_0 = .040$

N	KA= .00	.02	.04	.06	.08	.10	.12
2.0	.0762	.0762	.0762	.0762	.0762	.0761	.0760
3.0	.1068	.1063	.1056	.1050	.1042	.1035	.1026
4.0	.1329	.1315	.1301	.1286	.1270	.1254	.1236
5.0	.1560	.1537	.1514	.1489	.1463	.1436	.1408
6.0	.1768	.1736	.1702	.1667	.1630	.1592	.1552
7.0	.1959	.1916	.1872	.1825	.1777	.1727	.1675
8.0	.2134	.2081	.2025	.1966	.1906	.1844	.1780
9.0	.2297	.2232	.2164	.2094	.2021	.1946	.1869
10.0	.2448	.2371	.2291	.2208	.2123	.2035	.1946
15.0	.3069	.2930	.2787	.2641	.2492	.2341	.2190
20.0	.3525	.3324	.3118	.2909	.2699	.2490	.2283
25.0	.3866	.3606	.3340	.3073	.2807	.2546	.2291
30.0	.4125	.3808	.3487	.3167	.2852	.2545	.2251
35.0	.4323	.3954	.3582	.3214	.2855	.2509	.2182
40.0	.4475	.4057	.3640	.3229	.2831	.2452	.2098
45.0	.4591	.4130	.3670	.3221	.2789	.2383	.2007
50.0	.4682	.4180	.3682	.3197	.2736	.2307	.1914
60.0	.4806	.4232	.3666	.3123	.2613	.2147	.1731
70.0	.4882	.4245	.3622	.3030	.2482	.1991	.1562
75.0	.4907	.4243	.3594	.2981	.2417	.1916	.1483
80.0	.4927	.4236	.3564	.2931	.2353	.1844	.1408
90.0	.4955	.4215	.3499	.2831	.2230	.1708	.1271
100.0	.4972	.4188	.3433	.2734	.2113	.1583	.1149

TABLE 18 (continued)

N	KA= .14	.16	.18	.20	.22	.24	.26
2.0	.0759	.0757	.0756	.0754	.0751	.0749	.0746
3.0	.1017	.1008	.0998	.0987	.0976	.0964	.0951
4.0	.1217	.1198	.1177	.1156	.1134	.1111	.1087
5.0	.1379	.1348	.1316	.1283	.1250	.1215	.1180
6.0	.1511	.1469	.1425	.1381	.1335	.1289	.1241
7.0	.1622	.1567	.1511	.1455	.1397	.1339	.1280
8.0	.1714	.1647	.1579	.1510	.1441	.1371	.1301
9.0	.1791	.1712	.1632	.1551	.1470	.1389	.1309
10.0	.1856	.1764	.1672	.1580	.1488	.1397	.1307
15.0	.2040	.1891	.1745	.1602	.1464	.1331	.1204
20.0	.2081	.1885	.1696	.1516	.1346	.1187	.1040
25.0	.2046	.1813	.1593	.1388	.1200	.1028	.0873
30.0	.1971	.1710	.1469	.1250	.1052	.0877	.0723
35.0	.1876	.1596	.1341	.1114	.0915	.0742	.0594
40.0	.1773	.1478	.1217	.0988	.0791	.0625	.0487
45.0	.1667	.1364	.1100	.0874	.0683	.0526	.0398
50.0	.1564	.1256	.0993	.0771	.0589	.0442	.0326
60.0	.1370	.1062	.0807	.0601	.0438	.0313	.0219
70.0	.1198	.0897	.0657	.0469	.0327	.0223	.0148
75.0	.1120	.0825	.0593	.0415	.0283	.0188	.0122
80.0	.1048	.0759	.0536	.0367	.0245	.0159	.0100
90.0	.0919	.0644	.0438	.0289	.0184	.0114	.0068
100.0	.0807	.0548	.0359	.0227	.0139	.0082	.0047



TABLE 18 (continued)

N	KA= .28	.30	.32	.34	.36	.38	.40
2.0	.0742	.0739	.0735	.0730	.0725	.0720	.0714
3.0	.0938	.0924	.0909	.0894	.0879	.0862	.0846
4.0	.1063	.1038	.1012	.0985	.0958	.0931	.0903
5.0	.1144	.1107	.1069	.1032	.0994	.0955	.0917
6.0	.1194	.1145	.1097	.1049	.1000	.0952	.0904
7.0	.1221	.1162	.1104	.1045	.0988	.0931	.0875
8.0	.1232	.1163	.1095	.1028	.0963	.0899	.0837
9.0	.1230	.1152	.1076	.1001	.0929	.0859	.0792
10.0	.1219	.1133	.1049	.0968	.0890	.0816	.0744
15.0	.1083	.0969	.0863	.0764	.0673	.0589	.0513
20.0	.0904	.0781	.0670	.0570	.0482	.0404	.0336
25.0	.0735	.0613	.0507	.0416	.0337	.0271	.0216
30.0	.0590	.0476	.0380	.0300	.0234	.0181	.0138
35.0	.0470	.0367	.0283	.0216	.0162	.0121	.0088
40.0	.0374	.0283	.0211	.0155	.0113	.0080	.0057
45.0	.0297	.0218	.0157	.0112	.0078	.0054	.0036
50.0	.0236	.0168	.0117	.0081	.0054	.0036	.0023
60.0	.0150	.0100	.0066	.0042	.0026	.0016	.0010
70.0	.0096	.0060	.0037	.0022	.0013	.0007	.0004
75.0	.0076	.0047	.0028	.0016	.0009	.0005	.0003
80.0	.0061	.0036	.0021	.0012	.0006	.0003	.0002
90.0	.0039	.0022	.0012	.0006	.0003	.0002	.0001
100.0	.0026	.0013	.0007	.0003	.0002	.0001	.0000

TABLE 18 (continued)

N	KA= .42	.44	.46	.48	.50	.52	.54
2.0	.0708	.0702	.0695	.0688	.0680	.0672	.0663
3.0	.0829	.0811	.0793	.0774	.0755	.0736	.0716
4.0	.0874	.0846	.0817	.0787	.0758	.0729	.0700
5.0	.0878	.0840	.0801	.0763	.0726	.0689	.0652
6.0	.0857	.0810	.0764	.0720	.0676	.0633	.0592
7.0	.0821	.0768	.0716	.0666	.0618	.0572	.0528
8.0	.0776	.0718	.0663	.0609	.0559	.0511	.0465
9.0	.0727	.0666	.0608	.0552	.0501	.0452	.0406
10.0	.0677	.0613	.0553	.0498	.0446	.0397	.0353
15.0	.0444	.0382	.0327	.0279	.0236	.0198	.0166
20.0	.0278	.0223	.0185	.0150	.0120	.0095	.0075
25.0	.0171	.0134	.0104	.0080	.0060	.0046	.0034
30.0	.0105	.0078	.0058	.0042	.0030	.0022	.0015
35.0	.0064	.0046	.0032	.0022	.0015	.0010	.0007
40.0	.0039	.0027	.0018	.0012	.0008	.0005	.0003
45.0	.0024	.0016	.0010	.0006	.0004	.0002	.0001
50.0	.0015	.0009	.0006	.0003	.0002	.0001	.0001
60.0	.0006	.0003	.0002	.0001	.0001	.0000	.0000
70.0	.0002	.0001	.0001	.0000	.0000	.0000	.0000
75.0	.0001	.0001	.0000	.0000	.0000	.0000	.0000
80.0	.0001	.0000	.0000	.0000	.0000	.0000	.0000
90.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
100.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000

TABLE 18 (continued)

N	KA= .56	.58	.60	.62	.64	.66	.68
2.0	.0655	.0645	.0636	.0626	.0616	.0605	.0594
3.0	.0696	.0676	.0655	.0635	.0614	.0593	.0573
4.0	.0671	.0642	.0613	.0585	.0557	.0529	.0502
5.0	.0617	.0582	.0548	.0514	.0482	.0451	.0421
6.0	.0552	.0513	.0476	.0441	.0407	.0375	.0345
7.0	.0486	.0446	.0408	.0372	.0338	.0307	.0278
8.0	.0422	.0382	.0345	.0310	.0278	.0248	.0221
9.0	.0364	.0325	.0290	.0257	.0227	.0200	.0175
10.0	.0312	.0275	.0242	.0211	.0184	.0160	.0138
15.0	.0138	.0114	.0094	.0077	.0062	.0050	.0040
20.0	.0059	.0046	.0035	.0027	.0021	.0015	.0012
25.0	.0025	.0018	.0013	.0010	.0007	.0005	.0003
30.0	.0011	.0007	.0005	.0003	.0002	.0001	.0001
35.0	.0005	.0003	.0002	.0001	.0001	.0000	.0000
40.0	.0002	.0001	.0001	.0000	.0000	.0000	.0000
45.0	.0001	.0000	.0000	.0000	.0000	.0000	.0000
50.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
60.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
70.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
75.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
80.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
90.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
100.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000

TABLE 18 (continued)

N	KA= .70	.72	.74	.76	.78	.80	.82
2.0	.0583	.0571	.0560	.0548	.0535	.0523	.0510
3.0	.0552	.0531	.0511	.0490	.0470	.0450	.0430
4.0	.0476	.0450	.0425	.0401	.0377	.0354	.0332
5.0	.0393	.0365	.0339	.0313	.0289	.0267	.0245
6.0	.0316	.0289	.0263	.0239	.0217	.0197	.0177
7.0	.0250	.0225	.0202	.0180	.0161	.0143	.0126
8.0	.0196	.0174	.0153	.0134	.0118	.0103	.0089
9.0	.0153	.0133	.0115	.0100	.0086	.0074	.0063
10.0	.0119	.0102	.0087	.0074	.0062	.0052	.0044
15.0	.0032	.0025	.0020	.0016	.0012	.0009	.0007
20.0	.0009	.0006	.0005	.0003	.0002	.0002	.0001
25.0	.0002	.0002	.0001	.0001	.0000	.0000	.0000
30.0	.0001	.0000	.0000	.0000	.0000	.0000	.0000
35.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
40.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
45.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
50.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
60.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
70.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
75.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
80.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
90.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
100.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000

TABLE 18 (continued)

N	KA = .84	.86	.88	.90	.92	.94	.96
2.0	.0498	.0485	.0472	.0459	.0446	.0432	.0419
3.0	.0411	.0392	.0373	.0355	.0337	.0320	.0303
4.0	.0311	.0290	.0271	.0252	.0234	.0217	.0201
5.0	.0225	.0206	.0188	.0172	.0156	.0142	.0128
6.0	.0160	.0143	.0128	.0115	.0102	.0091	.0080
7.0	.0112	.0098	.0086	.0076	.0066	.0057	.0050
8.0	.0077	.0067	.0058	.0049	.0042	.0036	.0031
9.0	.0053	.0045	.0038	.0032	.0027	.0023	.0019
10.0	.0037	.0031	.0025	.0021	.0017	.0014	.0012
15.0	.0006	.0004	.0003	.0002	.0002	.0001	.0001
20.0	.0001	.0001	.0000	.0000	.0000	.0000	.0000
25.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
30.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
35.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
40.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
45.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
50.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
60.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
70.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
75.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
80.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
90.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
100.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000

TABLE 18 (continued)

N	KA= .93	1.00	1.02	1.04	1.06	1.08	1.10
2.0	.0406	.0393	.0380	.0367	.0354	.0341	.0328
3.0	.0286	.0270	.0255	.0240	.0226	.0212	.0199
4.0	.0186	.0171	.0158	.0145	.0133	.0122	.0111
5.0	.0116	.0104	.0094	.0084	.0075	.0067	.0060
6.0	.0071	.0063	.0055	.0048	.0042	.0037	.0032
7.0	.0043	.0037	.0032	.0027	.0023	.0020	.0017
8.0	.0026	.0022	.0018	.0015	.0013	.0011	.0009
9.0	.0016	.0013	.0011	.0009	.0007	.0006	.0005
10.0	.0009	.0008	.0006	.0005	.0004	.0003	.0002
15.0	.0001	.0001	.0000	.0000	.0000	.0000	.0000
20.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
25.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
30.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
35.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
40.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
45.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
50.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
60.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
70.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
75.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
80.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
90.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
100.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000



TABLE 19  
TABLE OF THE JOINT DISTRIBUTION OF  $\bar{X}$  AND  $X(N)$

PO = .050

N	KA= .00	.02	.04	.06	.08	.10	.12
2.0	.0944	.0943	.0943	.0941	.0940	.0938	.0937
3.0	.1307	.1299	.1290	.1281	.1270	.1260	.1248
4.0	.1612	.1594	.1575	.1555	.1533	.1511	.1488
5.0	.1877	.1848	.1818	.1786	.1752	.1717	.1681
6.0	.2114	.2073	.2029	.1984	.1937	.1889	.1838
7.0	.2327	.2273	.2216	.2158	.2097	.2034	.1969
8.0	.2520	.2453	.2382	.2310	.2234	.2157	.2077
9.0	.2697	.2615	.2531	.2444	.2354	.2262	.2168
10.0	.2859	.2763	.2664	.2562	.2458	.2351	.2242
15.0	.3496	.3329	.3158	.2984	.2808	.2631	.2454
20.0	.3931	.3696	.3457	.3216	.2974	.2735	.2500
25.0	.4234	.3937	.3636	.3335	.3036	.2744	.2462
30.0	.4449	.4095	.3738	.3384	.3037	.2702	.2381
35.0	.4602	.4197	.3791	.3391	.3002	.2631	.2280
40.0	.4712	.4260	.3811	.3370	.2947	.2545	.2172
45.0	.4791	.4298	.3809	.3333	.2879	.2453	.2061
50.0	.4848	.4317	.3793	.3286	.2806	.2359	.1954
60.0	.4919	.4323	.3737	.3177	.2654	.2177	.1752
70.0	.4957	.4304	.3667	.3062	.2506	.2007	.1573
75.0	.4968	.4289	.3629	.3006	.2435	.1928	.1491
80.0	.4977	.4274	.3591	.2950	.2367	.1852	.1414
90.0	.4988	.4239	.3516	.2842	.2237	.1713	.1274
100.0	.4993	.4203	.3443	.2741	.2118	.1586	.1150

TABLE 19 (continued)

N	KA= .14	.16	.18	.20	.22	.24	.26
2.0	.0934	.0932	.0929	.0925	.0922	.0918	.0913
3.0	.1236	.1223	.1209	.1195	.1179	.1163	.1147
4.0	.1463	.1438	.1411	.1384	.1355	.1326	.1296
5.0	.1643	.1604	.1563	.1522	.1479	.1436	.1391
6.0	.1786	.1733	.1678	.1623	.1566	.1508	.1450
7.0	.1903	.1835	.1766	.1696	.1625	.1554	.1482
8.0	.1996	.1914	.1831	.1747	.1663	.1578	.1494
9.0	.2072	.1976	.1878	.1781	.1684	.1587	.1492
10.0	.2133	.2022	.1912	.1801	.1692	.1584	.1478
15.0	.2278	.2105	.1936	.1772	.1614	.1462	.1318
20.0	.2271	.2049	.1838	.1637	.1449	.1273	.1111
25.0	.2191	.1935	.1694	.1471	.1267	.1082	.0916
30.0	.2079	.1798	.1540	.1305	.1095	.0910	.0748
35.0	.1955	.1657	.1389	.1151	.0942	.0762	.0609
40.0	.1830	.1522	.1249	.1012	.0808	.0637	.0495
45.0	.1708	.1394	.1122	.0889	.0694	.0533	.0403
50.0	.1592	.1277	.1007	.0781	.0596	.0446	.0329
60.0	.1384	.1072	.0813	.0605	.0441	.0315	.0220
70.0	.1205	.0902	.0659	.0471	.0328	.0223	.0148
75.0	.1125	.0828	.0595	.0416	.0284	.0188	.0122
80.0	.1051	.0761	.0537	.0368	.0245	.0159	.0100
90.0	.0920	.0645	.0438	.0286	.0184	.0114	.0068
100.0	.0807	.0548	.0359	.0227	.0139	.0082	.0047

TABLE 19 (continued)

N	KA= .28	.30	.32	.34	.36	.38	.40
2.0	.0908	.0903	.0897	.0890	.0884	.0876	.0869
3.0	.1129	.1111	.1092	.1073	.1053	.1032	.1010
4.0	.1264	.1232	.1200	.1166	.1132	.1098	.1063
5.0	.1346	.1300	.1254	.1207	.1160	.1113	.1066
6.0	.1391	.1332	.1273	.1214	.1155	.1097	.1039
7.0	.1411	.1339	.1268	.1199	.1130	.1062	.0996
8.0	.1411	.1329	.1248	.1168	.1091	.1015	.0942
9.0	.1398	.1305	.1215	.1128	.1043	.0962	.0884
10.0	.1374	.1273	.1176	.1082	.0991	.0905	.0824
15.0	.1182	.1054	.0935	.0825	.0724	.0632	.0549
20.0	.0963	.0829	.0708	.0601	.0506	.0423	.0351
25.0	.0769	.0639	.0527	.0431	.0349	.0280	.0222
30.0	.0609	.0490	.0390	.0307	.0239	.0185	.0141
35.0	.0480	.0375	.0288	.0219	.0165	.0122	.0089
40.0	.0379	.0287	.0214	.0157	.0114	.0081	.0057
45.0	.0300	.0220	.0159	.0113	.0079	.0054	.0036
50.0	.0238	.0169	.0118	.0081	.0054	.0036	.0023
60.0	.0150	.0101	.0066	.0042	.0026	.0016	.0010
70.0	.0096	.0060	.0037	.0022	.0013	.0007	.0004
75.0	.0077	.0047	.0028	.0016	.0009	.0005	.0003
80.0	.0061	.0036	.0021	.0012	.0006	.0003	.0002
90.0	.0039	.0022	.0012	.0006	.0003	.0002	.0001
100.0	.0026	.0013	.0007	.0003	.0002	.0001	.0000

TABLE 19 (continued)

N	KA= .42	.44	.46	.48	.50	.52	.54
2.0	.0860	.0852	.0843	.0833	.0823	.0812	.0801
3.0	.0988	.0966	.0943	.0919	.0895	.0871	.0846
4.0	.1027	.0992	.0956	.0920	.0884	.0848	.0813
5.0	.1019	.0972	.0925	.0880	.0834	.0790	.0746
6.0	.0983	.0927	.0872	.0819	.0767	.0717	.0668
7.0	.0931	.0869	.0808	.0750	.0693	.0640	.0589
8.0	.0872	.0804	.0740	.0678	.0620	.0565	.0513
9.0	.0809	.0739	.0672	.0609	.0550	.0495	.0444
10.0	.0747	.0674	.0607	.0544	.0485	.0431	.0382
15.0	.0473	.0406	.0347	.0294	.0248	.0208	.0173
20.0	.0289	.0236	.0192	.0155	.0124	.0098	.0077
25.0	.0175	.0137	.0106	.0081	.0061	.0046	.0034
30.0	.0106	.0079	.0058	.0043	.0031	.0022	.0015
35.0	.0065	.0046	.0032	.0023	.0015	.0010	.0007
40.0	.0039	.0027	.0018	.0012	.0008	.0005	.0003
45.0	.0024	.0016	.0010	.0006	.0004	.0002	.0001
50.0	.0015	.0009	.0006	.0003	.0002	.0001	.0001
60.0	.0006	.0003	.0002	.0001	.0001	.0000	.0000
70.0	.0002	.0001	.0001	.0000	.0000	.0000	.0000
75.0	.0001	.0001	.0000	.0000	.0000	.0000	.0000
80.0	.0001	.0000	.0000	.0000	.0000	.0000	.0000
90.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
100.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000

TABLE 19 (continued)

N	KA=	.56	.58	.60	.62	.64	.66	.68
2.0		.0789	.0777	.0765	.0752	.0739	.0725	.0711
3.0		.0821	.0796	.0771	.0745	.0720	.0694	.0668
4.0		.0777	.0742	.0707	.0673	.0640	.0607	.0575
5.0		.0704	.0662	.0622	.0583	.0545	.0509	.0474
6.0		.0621	.0576	.0533	.0492	.0453	.0416	.0382
7.0		.0540	.0494	.0451	.0410	.0372	.0336	.0303
8.0		.0464	.0419	.0377	.0338	.0302	.0269	.0239
9.0		.0397	.0353	.0313	.0277	.0244	.0214	.0187
10.0		.0337	.0296	.0259	.0226	.0196	.0169	.0146
15.0		.0144	.0119	.0097	.0079	.0064	.0052	.0041
20.0		.0060	.0047	.0036	.0028	.0021	.0016	.0012
25.0		.0025	.0019	.0013	.0010	.0007	.0005	.0003
30.0		.0011	.0007	.0005	.0003	.0002	.0002	.0001
35.0		.0005	.0003	.0002	.0001	.0001	.0000	.0000
40.0		.0002	.0001	.0001	.0000	.0000	.0000	.0000
45.0		.0001	.0000	.0000	.0000	.0000	.0000	.0000
50.0		.0000	.0000	.0000	.0000	.0000	.0000	.0000
60.0		.0000	.0000	.0000	.0000	.0000	.0000	.0000
70.0		.0000	.0000	.0000	.0000	.0000	.0000	.0000
75.0		.0000	.0000	.0000	.0000	.0000	.0000	.0000
80.0		.0000	.0000	.0000	.0000	.0000	.0000	.0000
90.0		.0000	.0000	.0000	.0000	.0000	.0000	.0000
100.0		.0000	.0000	.0000	.0000	.0000	.0000	.0000

TABLE 19 (continued)

N	KA= .70	.72	.74	.76	.78	.80	.82
2.0	.0697	.0682	.0667	.0652	.0637	.0621	.0605
3.0	.0643	.0618	.0593	.0568	.0543	.0519	.0496
4.0	.0543	.0512	.0483	.0454	.0426	.0399	.0373
5.0	.0440	.0408	.0378	.0349	.0321	.0295	.0271
6.0	.0349	.0318	.0289	.0262	.0237	.0214	.0192
7.0	.0273	.0244	.0218	.0195	.0173	.0153	.0135
8.0	.0211	.0186	.0164	.0143	.0125	.0109	.0095
9.0	.0163	.0141	.0122	.0105	.0090	.0077	.0066
10.0	.0125	.0107	.0091	.0077	.0065	.0055	.0046
15.0	.0033	.0026	.0020	.0016	.0012	.0010	.0007
20.0	.0009	.0006	.0005	.0003	.0002	.0002	.0001
25.0	.0002	.0002	.0001	.0001	.0000	.0000	.0000
30.0	.0001	.0000	.0000	.0000	.0000	.0000	.0000
35.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
40.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
45.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
50.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
60.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
70.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
75.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
80.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
90.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
100.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000



TABLE 19 (continued)

N	KA= .84	.86	.88	.90	.92	.94	.96
2.0	.0589	.0573	.0557	.0541	.0525	.0508	.0492
3.0	.0472	.0449	.0427	.0405	.0384	.0363	.0343
4.0	.0348	.0325	.0302	.0280	.0260	.0240	.0222
5.0	.0248	.0226	.0206	.0187	.0170	.0154	.0139
6.0	.0173	.0155	.0138	.0123	.0109	.0097	.0086
7.0	.0119	.0105	.0092	.0080	.0070	.0060	.0052
8.0	.0082	.0070	.0060	.0052	.0044	.0038	.0032
9.0	.0056	.0047	.0040	.0033	.0028	.0023	.0019
10.0	.0038	.0032	.0026	.0022	.0018	.0014	.0012
15.0	.0006	.0004	.0003	.0002	.0002	.0001	.0001
20.0	.0001	.0001	.0000	.0000	.0000	.0000	.0000
25.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
30.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
35.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
40.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
45.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
50.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
60.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
70.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
75.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
80.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
90.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
100.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000

TABLE 19 (continued)

N	KA= .98	1.00	1.02	1.04	1.06	1.08	1.10
2.0	.0476	.0459	.0443	.0427	.0412	.0396	.0381
3.0	.0324	.0305	.0287	.0270	.0253	.0237	.0222
4.0	.0205	.0188	.0173	.0158	.0145	.0132	.0121
5.0	.0125	.0112	.0101	.0090	.0081	.0072	.0064
6.0	.0075	.0066	.0058	.0051	.0044	.0039	.0033
7.0	.0045	.0039	.0033	.0028	.0024	.0021	.0017
8.0	.0027	.0023	.0019	.0016	.0013	.0011	.0009
9.0	.0016	.0013	.0011	.0009	.0007	.0006	.0005
10.0	.0010	.0008	.0006	.0005	.0004	.0003	.0002
15.0	.0001	.0001	.0000	.0000	.0000	.0000	.0000
20.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
25.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
30.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
35.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
40.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
45.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
50.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
60.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
70.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
75.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
80.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
90.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
100.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000

TABLE 20  
TABLE OF THE JOINT DISTRIBUTION OF  $\bar{X}$  AND  $X(N)$

PO= .060

N	KA= .00	.02	.04	.06	.08	.10	.12
2.0	.1123	.1121	.1119	.1117	.1115	.1112	.1109
3.0	.1537	.1526	.1514	.1502	.1488	.1474	.1459
4.0	.1879	.1856	.1832	.1807	.1780	.1752	.1723
5.0	.2173	.2137	.2099	.2059	.2017	.1974	.1930
6.0	.2430	.2380	.2327	.2272	.2215	.2156	.2095
7.0	.2659	.2593	.2525	.2454	.2381	.2305	.2228
8.0	.2863	.2782	.2697	.2610	.2521	.2429	.2335
9.0	.3046	.2949	.2849	.2745	.2639	.2531	.2421
10.0	.3212	.3099	.2982	.2863	.2740	.2616	.2489
15.0	.3836	.3646	.3451	.3253	.3053	.2853	.2654
20.0	.4233	.3970	.3704	.3437	.3171	.2908	.2651
25.0	.4490	.4164	.3836	.3509	.3187	.2873	.2571
30.0	.4658	.4277	.3896	.3518	.3150	.2795	.2458
35.0	.4770	.4341	.3912	.3492	.3085	.2697	.2333
40.0	.4845	.4372	.3903	.3446	.3006	.2592	.2208
45.0	.4895	.4384	.3879	.3389	.2922	.2486	.2086
50.0	.4929	.4383	.3845	.3326	.2836	.2382	.1970
60.0	.4967	.4360	.3766	.3198	.2669	.2187	.1760
70.0	.4985	.4325	.3682	.3073	.2513	.2012	.1576
75.0	.4990	.4305	.3640	.3013	.2440	.1931	.1493
80.0	.4993	.4285	.3599	.2955	.2370	.1855	.1415
90.0	.4997	.4245	.3520	.2845	.2239	.1714	.1275
100.0	.4998	.4206	.3445	.2742	.2118	.1586	.1151

TABLE 20 (continued)

N	KA= .14	.16	.18	.20	.22	.24	.26
2.0	.1105	.1101	.1097	.1092	.1087	.1081	.1075
3.0	.1443	.1427	.1409	.1391	.1372	.1351	.1331
4.0	.1693	.1661	.1628	.1594	.1559	.1523	.1486
5.0	.1884	.1836	.1787	.1737	.1686	.1633	.1580
6.0	.2032	.1968	.1903	.1837	.1769	.1701	.1632
7.0	.2149	.2068	.1987	.1904	.1821	.1737	.1654
8.0	.2239	.2143	.2045	.1947	.1849	.1751	.1654
9.0	.2309	.2197	.2084	.1972	.1860	.1749	.1639
10.0	.2362	.2235	.2108	.1981	.1856	.1733	.1613
15.0	.2458	.2265	.2078	.1897	.1722	.1556	.1399
20.0	.2401	.2161	.1933	.1717	.1516	.1328	.1156
25.0	.2282	.2010	.1756	.1521	.1307	.1113	.0940
30.0	.2141	.1847	.1578	.1335	.1118	.0927	.0761
35.0	.1996	.1689	.1413	.1168	.0955	.0771	.0615
40.0	.1857	.1542	.1264	.1022	.0816	.0642	.0498
45.0	.1726	.1407	.1131	.0895	.0698	.0536	.0405
50.0	.1604	.1285	.1013	.0785	.0598	.0448	.0330
60.0	.1389	.1075	.0815	.0606	.0442	.0315	.0220
70.0	.1207	.0903	.0660	.0471	.0328	.0223	.0148
75.0	.1126	.0829	.0595	.0416	.0284	.0188	.0122
80.0	.1052	.0762	.0537	.0368	.0245	.0159	.0100
90.0	.0921	.0645	.0439	.0289	.0184	.0114	.0068
100.0	.0808	.0548	.0359	.0227	.0139	.0082	.0047

TABLE 20 (continued)

N	KA=	.28	.30	.32	.34	.36	.38	.40
2.0		.1068	.1061	.1053	.1045	.1036	.1026	.1016
3.0		.1309	.1286	.1263	.1239	.1214	.1188	.1162
4.0		.1448	.1410	.1370	.1330	.1289	.1247	.1206
5.0		.1526	.1471	.1416	.1361	.1305	.1250	.1195
6.0		.1563	.1493	.1424	.1355	.1287	.1219	.1153
7.0		.1571	.1488	.1406	.1326	.1246	.1169	.1093
8.0		.1559	.1464	.1371	.1281	.1193	.1108	.1026
9.0		.1532	.1428	.1326	.1227	.1132	.1041	.0954
10.0		.1496	.1383	.1273	.1168	.1068	.0973	.0883
15.0		.1251	.1113	.0985	.0866	.0758	.0660	.0571
20.0		.1000	.0858	.0731	.0619	.0520	.0434	.0359
25.0		.0787	.0653	.0538	.0438	.0354	.0284	.0225
30.0		.0618	.0496	.0395	.0310	.0242	.0186	.0142
35.0		.0485	.0378	.0290	.0221	.0165	.0123	.0090
40.0		.0382	.0288	.0214	.0157	.0114	.0081	.0057
45.0		.0301	.0221	.0159	.0113	.0079	.0054	.0036
50.0		.0238	.0169	.0118	.0081	.0055	.0036	.0023
60.0		.0150	.0101	.0066	.0042	.0026	.0016	.0010
70.0		.0096	.0060	.0037	.0022	.0013	.0007	.0004
75.0		.0077	.0047	.0028	.0016	.0009	.0005	.0003
80.0		.0061	.0036	.0021	.0012	.0006	.0003	.0002
90.0		.0040	.0022	.0012	.0006	.0003	.0002	.0001
100.0		.0026	.0013	.0007	.0003	.0002	.0001	.0000

TABLE 20 (continued)

N	KA= .42	.44	.46	.48	.50	.52	.54
2.0	.1006	.0994	.0983	.0970	.0958	.0944	.0930
3.0	.1135	.1107	.1079	.1051	.1022	.0993	.0963
4.0	.1164	.1121	.1079	.1036	.0994	.0952	.0910
5.0	.1140	.1085	.1031	.0978	.0926	.0874	.0824
6.0	.1087	.1023	.0961	.0900	.0841	.0784	.0729
7.0	.1020	.0949	.0881	.0815	.0752	.0692	.0635
8.0	.0947	.0871	.0799	.0731	.0666	.0605	.0548
9.0	.0872	.0793	.0720	.0650	.0586	.0526	.0470
10.0	.0798	.0719	.0645	.0576	.0513	.0455	.0402
15.0	.0492	.0421	.0358	.0303	.0255	.0214	.0178
20.0	.0295	.0241	.0195	.0157	.0125	.0099	.0078
25.0	.0177	.0138	.0107	.0082	.0062	.0046	.0035
30.0	.0107	.0080	.0059	.0043	.0031	.0022	.0015
35.0	.0065	.0046	.0032	.0023	.0015	.0010	.0007
40.0	.0039	.0027	.0018	.0012	.0008	.0005	.0003
45.0	.0024	.0016	.0010	.0006	.0004	.0002	.0001
50.0	.0015	.0009	.0006	.0003	.0002	.0001	.0001
60.0	.0006	.0003	.0002	.0001	.0001	.0000	.0000
70.0	.0002	.0001	.0001	.0000	.0000	.0000	.0000
75.0	.0001	.0001	.0000	.0000	.0000	.0000	.0000
80.0	.0001	.0000	.0000	.0000	.0000	.0000	.0000
90.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
100.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000



TABLE 20 (continued)

N	KA= .56	.58	.60	.62	.64	.66	.68
2.0	.0916	.0901	.0885	.0870	.0853	.0837	.0819
3.0	.0933	.0903	.0873	.0843	.0812	.0782	.0752
4.0	.0869	.0828	.0788	.0748	.0709	.0671	.0634
5.0	.0776	.0728	.0682	.0638	.0595	.0554	.0515
6.0	.0676	.0626	.0578	.0532	.0489	.0448	.0409
7.0	.0581	.0530	.0483	.0438	.0396	.0357	.0321
8.0	.0495	.0446	.0400	.0357	.0319	.0283	.0251
9.0	.0419	.0372	.0329	.0290	.0255	.0223	.0195
10.0	.0353	.0310	.0270	.0235	.0204	.0176	.0151
15.0	.0147	.0121	.0099	.0080	.0065	.0052	.0042
20.0	.0061	.0047	.0036	.0028	.0021	.0016	.0012
25.0	.0025	.0019	.0013	.0010	.0007	.0005	.0003
30.0	.0011	.0007	.0005	.0003	.0002	.0002	.0001
35.0	.0005	.0003	.0002	.0001	.0001	.0000	.0000
40.0	.0002	.0001	.0001	.0000	.0000	.0000	.0000
45.0	.0001	.0000	.0000	.0000	.0000	.0000	.0000
50.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
60.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
70.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
75.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
80.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
90.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
100.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000

TABLE 20 (continued)

N	KA= .70	.72	.74	.76	.78	.80	.82
2.0	.0802	.0784	.0766	.0747	.0729	.0710	.0691
3.0	.0722	.0693	.0663	.0634	.0606	.0578	.0550
4.0	.0598	.0563	.0530	.0497	.0465	.0435	.0406
5.0	.0477	.0441	.0407	.0375	.0345	.0316	.0289
6.0	.0373	.0339	.0308	.0278	.0251	.0226	.0203
7.0	.0288	.0258	.0230	.0204	.0181	.0160	.0141
8.0	.0221	.0195	.0171	.0149	.0130	.0113	.0098
9.0	.0169	.0146	.0126	.0109	.0093	.0079	.0067
10.0	.0129	.0110	.0093	.0079	.0067	.0056	.0047
15.0	.0033	.0026	.0021	.0016	.0013	.0010	.0007
20.0	.0009	.0006	.0005	.0003	.0002	.0002	.0001
25.0	.0002	.0002	.0001	.0001	.0000	.0000	.0000
30.0	.0001	.0000	.0000	.0000	.0000	.0000	.0000
35.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
40.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
45.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
50.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
60.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
70.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
75.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
80.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
90.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
100.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000

TABLE 20 (continued)

N	$K\lambda = .84$	.86	.88	.90	.92	.94	.96
2.0	.0672	.0652	.0633	.0614	.0594	.0575	.0556
3.0	.0524	.0497	.0472	.0447	.0422	.0399	.0376
4.0	.0378	.0352	.0326	.0302	.0280	.0258	.0238
5.0	.0264	.0241	.0219	.0198	.0180	.0162	.0146
6.0	.0182	.0162	.0145	.0128	.0114	.0101	.0089
7.0	.0124	.0109	.0095	.0083	.0072	.0062	.0054
8.0	.0084	.0072	.0062	.0053	.0045	.0038	.0032
9.0	.0057	.0048	.0041	.0034	.0028	.0024	.0020
10.0	.0039	.0032	.0027	.0022	.0018	.0015	.0012
15.0	.0006	.0004	.0003	.0002	.0002	.0001	.0001
20.0	.0001	.0001	.0000	.0000	.0000	.0000	.0000
25.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
30.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
35.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
40.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
45.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
50.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
60.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
70.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
75.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
80.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
90.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
100.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000

TABLE 20 (continued)

N	KA= .98	1.00	1.02	1.04	1.06	1.08	1.10
2.0	.0536	.0517	.0498	.0480	.0461	.0443	.0425
3.0	.0354	.0333	.0313	.0293	.0274	.0257	.0239
4.0	.0219	.0201	.0184	.0168	.0153	.0140	.0127
5.0	.0131	.0118	.0105	.0094	.0084	.0075	.0066
6.0	.0078	.0068	.0060	.0052	.0046	.0040	.0034
7.0	.0046	.0040	.0034	.0029	.0025	.0021	.0018
8.0	.0027	.0023	.0019	.0016	.0013	.0011	.0009
9.0	.0016	.0013	.0011	.0009	.0007	.0006	.0005
10.0	.0010	.0008	.0006	.0005	.0004	.0003	.0003
15.0	.0001	.0001	.0000	.0000	.0000	.0000	.0000
20.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
25.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
30.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
35.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
40.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
45.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
50.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
60.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
70.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
75.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
80.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
90.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
100.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000

TABLE 21  
TABLE OF THE JOINT DISTRIBUTION OF  $\bar{X}$  AND  $X(N)$

PQ = .070

N	K $\bar{X}$ = .00	.02	.04	.06	.08	.10	.12
2.0	.1297	.1294	.1291	.1288	.1284	.1280	.1276
3.0	.1757	.1743	.1728	.1712	.1696	.1678	.1659
4.0	.2130	.2102	.2073	.2042	.2010	.1976	.1941
5.0	.2446	.2403	.2357	.2310	.2261	.2210	.2157
6.0	.2718	.2658	.2596	.2531	.2464	.2395	.2324
7.0	.2956	.2879	.2799	.2716	.2631	.2544	.2454
8.0	.3165	.3070	.2973	.2872	.2769	.2663	.2556
9.0	.3349	.3238	.3122	.3004	.2883	.2759	.2634
10.0	.3514	.3384	.3251	.3115	.2976	.2836	.2694
15.0	.4106	.3895	.3679	.3460	.3241	.3022	.2806
20.0	.4454	.4170	.3883	.3595	.3309	.3028	.2754
25.0	.4664	.4317	.3969	.3624	.3285	.2955	.2639
30.0	.4791	.4392	.3993	.3600	.3217	.2850	.2502
35.0	.4870	.4424	.3982	.3548	.3130	.2733	.2361
40.0	.4919	.4433	.3952	.3484	.3037	.2615	.2225
45.0	.4949	.4427	.3913	.3415	.2942	.2501	.2097
50.0	.4968	.4414	.3869	.3344	.2849	.2391	.1977
60.0	.4987	.4375	.3777	.3206	.2674	.2191	.1762
70.0	.4995	.4332	.3687	.3077	.2516	.2013	.1577
75.0	.4997	.4310	.3644	.3016	.2442	.1932	.1493
80.0	.4998	.4289	.3602	.2957	.2371	.1855	.1416
90.0	.4999	.4247	.3521	.2846	.2239	.1714	.1275
100.0	.5000	.4207	.3446	.2742	.2119	.1587	.1151

TABLE 21 (continued)

N	KA= .14	.16	.18	.20	.22	.24	.26
2.0	.1271	.1265	.1260	.1253	.1246	.1239	.1230
3.0	.1640	.1619	.1598	.1576	.1552	.1528	.1503
4.0	.1905	.1867	.1828	.1788	.1746	.1704	.1660
5.0	.2102	.2046	.1989	.1930	.1870	.1810	.1748
6.0	.2251	.2177	.2101	.2024	.1947	.1868	.1789
7.0	.2363	.2271	.2177	.2083	.1988	.1894	.1799
8.0	.2447	.2337	.2226	.2116	.2005	.1895	.1786
9.0	.2508	.2381	.2254	.2128	.2003	.1880	.1758
10.0	.2551	.2408	.2266	.2126	.1987	.1852	.1719
15.0	.2592	.2384	.2181	.1987	.1800	.1623	.1455
20.0	.2490	.2236	.1996	.1769	.1558	.1363	.1184
25.0	.2338	.2055	.1792	.1550	.1329	.1131	.0953
30.0	.2176	.1874	.1599	.1351	.1130	.0936	.0767
35.0	.2018	.1705	.1425	.1177	.0961	.0775	.0618
40.0	.1970	.1551	.1270	.1027	.0819	.0644	.0500
45.0	.1733	.1412	.1134	.0897	.0699	.0537	.0405
50.0	.1608	.1288	.1014	.0786	.0599	.0448	.0330
60.0	.1390	.1076	.0816	.0607	.0442	.0315	.0220
70.0	.1207	.0903	.0660	.0471	.0328	.0223	.0148
75.0	.1127	.0829	.0595	.0416	.0284	.0188	.0122
80.0	.1052	.0762	.0537	.0368	.0245	.0159	.0100
90.0	.0921	.0645	.0439	.0289	.0184	.0114	.0068
100.0	.0808	.0548	.0359	.0228	.0139	.0082	.0047



TABLE 21 (continued)

N	KA= .28	.30	.32	.34	.36	.38	.40
2.0	.1222	.1212	.1203	.1192	.1181	.1169	.1156
3.0	.1476	.1449	.1421	.1392	.1363	.1332	.1301
4.0	.1615	.1570	.1524	.1477	.1429	.1381	.1333
5.0	.1685	.1622	.1559	.1495	.1432	.1368	.1305
6.0	.1710	.1631	.1553	.1475	.1398	.1322	.1247
7.0	.1705	.1612	.1520	.1430	.1342	.1256	.1172
8.0	.1679	.1574	.1471	.1371	.1274	.1181	.1091
9.0	.1640	.1524	.1412	.1305	.1201	.1102	.1007
10.0	.1591	.1467	.1348	.1234	.1125	.1023	.0926
15.0	.1298	.1152	.1017	.0893	.0780	.0678	.0585
20.0	.1022	.0876	.0745	.0629	.0528	.0440	.0364
25.0	.0797	.0661	.0543	.0442	.0357	.0286	.0227
30.0	.0622	.0499	.0397	.0312	.0243	.0187	.0142
35.0	.0487	.0379	.0291	.0221	.0166	.0123	.0090
40.0	.0382	.0289	.0215	.0158	.0114	.0081	.0057
45.0	.0302	.0221	.0159	.0113	.0079	.0054	.0036
50.0	.0239	.0169	.0118	.0081	.0055	.0036	.0023
60.0	.0150	.0101	.0066	.0042	.0026	.0016	.0010
70.0	.0096	.0060	.0037	.0022	.0013	.0007	.0004
75.0	.0077	.0047	.0028	.0016	.0009	.0005	.0003
80.0	.0061	.0036	.0021	.0012	.0006	.0003	.0002
90.0	.0040	.0022	.0012	.0006	.0003	.0002	.0001
100.0	.0026	.0013	.0007	.0003	.0002	.0001	.0000

TABLE 21 (continued)

N	KA= .42	.44	.46	.48	.50	.52	.54
2.0	.1143	.1130	.1115	.1100	.1085	.1068	.1051
3.0	.1269	.1237	.1204	.1170	.1137	.1102	.1068
4.0	.1284	.1235	.1186	.1138	.1089	.1041	.0994
5.0	.1243	.1181	.1120	.1060	.1002	.0944	.0889
6.0	.1174	.1102	.1033	.0965	.0900	.0837	.0777
7.0	.1091	.1013	.0938	.0866	.0797	.0732	.0671
8.0	.1004	.0922	.0844	.0770	.0700	.0635	.0574
9.0	.0918	.0834	.0754	.0680	.0612	.0548	.0489
10.0	.0835	.0750	.0672	.0599	.0532	.0471	.0415
15.0	.0503	.0430	.0365	.0308	.0259	.0217	.0180
20.0	.0299	.0243	.0197	.0158	.0126	.0100	.0078
25.0	.0178	.0139	.0107	.0082	.0062	.0047	.0035
30.0	.0107	.0080	.0059	.0043	.0031	.0022	.0015
35.0	.0065	.0046	.0032	.0023	.0015	.0010	.0007
40.0	.0039	.0027	.0018	.0012	.0008	.0005	.0003
45.0	.0024	.0016	.0010	.0006	.0004	.0002	.0001
50.0	.0015	.0009	.0006	.0003	.0002	.0001	.0001
60.0	.0006	.0003	.0002	.0001	.0001	.0000	.0000
70.0	.0002	.0001	.0001	.0000	.0000	.0000	.0000
75.0	.0001	.0001	.0000	.0000	.0000	.0000	.0000
80.0	.0001	.0000	.0000	.0000	.0000	.0000	.0000
90.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
100.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000

TABLE 21 (continued)

N	KA=	.56	.58	.60	.62	.64	.66	.68
2.0		.1034	.1016	.0997	.0978	.0959	.0939	.0919
3.0		.1033	.0998	.0963	.0929	.0894	.0859	.0825
4.0		.0947	.0901	.0855	.0811	.0767	.0725	.0684
5.0		.0834	.0782	.0731	.0682	.0635	.0590	.0547
6.0		.0719	.0664	.0612	.0562	.0515	.0471	.0430
7.0		.0612	.0557	.0506	.0458	.0414	.0372	.0334
8.0		.0517	.0464	.0416	.0371	.0330	.0293	.0259
9.0		.0435	.0385	.0340	.0299	.0262	.0229	.0200
10.0		.0364	.0319	.0278	.0241	.0208	.0179	.0154
15.0		.0149	.0122	.0100	.0081	.0066	.0053	.0042
20.0		.0061	.0047	.0036	.0028	.0021	.0016	.0012
25.0		.0026	.0019	.0013	.0010	.0007	.0005	.0003
30.0		.0011	.0007	.0005	.0003	.0002	.0002	.0001
35.0		.0005	.0003	.0002	.0001	.0001	.0000	.0000
40.0		.0002	.0001	.0001	.0000	.0000	.0000	.0000
45.0		.0001	.0000	.0000	.0000	.0000	.0000	.0000
50.0		.0000	.0000	.0000	.0000	.0000	.0000	.0000
60.0		.0000	.0000	.0000	.0000	.0000	.0000	.0000
70.0		.0000	.0000	.0000	.0000	.0000	.0000	.0000
75.0		.0000	.0000	.0000	.0000	.0000	.0000	.0000
80.0		.0000	.0000	.0000	.0000	.0000	.0000	.0000
90.0		.0000	.0000	.0000	.0000	.0000	.0000	.0000
100.0		.0000	.0000	.0000	.0000	.0000	.0000	.0000

TABLE 21 (continued)

N	KA= .70	.72	.74	.76	.78	.80	.82
2.0	.0898	.0877	.0855	.0834	.0812	.0790	.0768
3.0	.0791	.0757	.0724	.0691	.0659	.0627	.0596
4.0	.0644	.0605	.0567	.0531	.0497	.0463	.0432
5.0	.0506	.0467	.0430	.0395	.0363	.0332	.0303
6.0	.0391	.0355	.0321	.0290	.0261	.0234	.0210
7.0	.0299	.0267	.0238	.0211	.0186	.0165	.0145
8.0	.0228	.0200	.0175	.0153	.0133	.0115	.0100
9.0	.0173	.0150	.0129	.0111	.0095	.0081	.0068
10.0	.0131	.0112	.0095	.0080	.0067	.0056	.0047
15.0	.0033	.0026	.0021	.0016	.0013	.0010	.0007
20.0	.0009	.0006	.0005	.0003	.0002	.0002	.0001
25.0	.0002	.0002	.0001	.0001	.0000	.0000	.0000
30.0	.0001	.0000	.0000	.0000	.0000	.0000	.0000
35.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
40.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
45.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
50.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
60.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
70.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
75.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
80.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
90.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
100.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000

TABLE 21 (continued)

N	KA= .84	.86	.88	.90	.92	.94	.96
2.0	.0745	.0723	.0700	.0678	.0655	.0633	.0611
3.0	.0566	.0537	.0508	.0480	.0454	.0428	.0402
4.0	.0401	.0372	.0345	.0319	.0294	.0271	.0249
5.0	.0276	.0251	.0228	.0206	.0186	.0168	.0151
6.0	.0188	.0167	.0149	.0132	.0117	.0103	.0091
7.0	.0127	.0111	.0097	.0084	.0073	.0063	.0055
8.0	.0086	.0074	.0063	.0054	.0046	.0039	.0033
9.0	.0058	.0049	.0041	.0034	.0029	.0024	.0020
10.0	.0039	.0032	.0027	.0022	.0018	.0015	.0012
15.0	.0006	.0004	.0003	.0002	.0002	.0001	.0001
20.0	.0001	.0001	.0000	.0000	.0000	.0000	.0000
25.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
30.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
35.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
40.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
45.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
50.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
60.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
70.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
75.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
80.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
90.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
100.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000



TABLE 21 (continued)

N	KA= .98	1.00	1.02	1.04	1.06	1.08	1.10
2.0	.0589	.0567	.0546	.0524	.0503	.0483	.0462
3.0	.0378	.0355	.0333	.0311	.0291	.0271	.0253
4.0	.0229	.0210	.0192	.0175	.0159	.0145	.0132
5.0	.0135	.0121	.0108	.0097	.0086	.0076	.0068
6.0	.0080	.0070	.0061	.0053	.0046	.0040	.0035
7.0	.0047	.0040	.0034	.0029	.0025	.0021	.0018
8.0	.0028	.0023	.0019	.0016	.0013	.0011	.0009
9.0	.0016	.0013	.0011	.0009	.0007	.0006	.0005
10.0	.0010	.0008	.0006	.0005	.0004	.0003	.0003
15.0	.0001	.0001	.0000	.0000	.0000	.0000	.0000
20.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
25.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
30.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
35.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
40.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
45.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
50.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
60.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
70.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
75.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
80.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
90.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
100.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000



TABLE 22  
TABLE OF THE JOINT DISTRIBUTION OF  $\bar{X}$  AND  $X(N)$

PG= .080

N	KA= .00	.02	.04	.06	.08	.10	.12
2.0	.1467	.1464	.1459	.1455	.1450	.1444	.1438
3.0	.1968	.1950	.1932	.1913	.1893	.1872	.1850
4.0	.2367	.2334	.2299	.2263	.2225	.2185	.2144
5.0	.2699	.2648	.2595	.2540	.2483	.2424	.2363
6.0	.2980	.2911	.2839	.2765	.2688	.2609	.2528
7.0	.3222	.3134	.3042	.2949	.2852	.2753	.2652
8.0	.3430	.3323	.3213	.3100	.2984	.2865	.2745
9.0	.3612	.3486	.3357	.3224	.3089	.2952	.2813
10.0	.3771	.3626	.3478	.3327	.3174	.3018	.2862
15.0	.4319	.4089	.3856	.3620	.3385	.3150	.2919
20.0	.4616	.4314	.4010	.3706	.3406	.3111	.2825
25.0	.4781	.4419	.4057	.3698	.3347	.3007	.2681
30.0	.4875	.4462	.4051	.3648	.3256	.2881	.2526
35.0	.4923	.4472	.4020	.3579	.3155	.2752	.2375
40.0	.4958	.4464	.3977	.3504	.3051	.2626	.2233
45.0	.4976	.4448	.3929	.3427	.2951	.2507	.2101
50.0	.4986	.4427	.3879	.3352	.2855	.2395	.1979
60.0	.4995	.4381	.3781	.3209	.2676	.2192	.1763
70.0	.4998	.4334	.3689	.3078	.2516	.2014	.1577
75.0	.4999	.4312	.3645	.3016	.2442	.1932	.1493
80.0	.4999	.4290	.3602	.2957	.2371	.1855	.1416
90.0	.5000	.4247	.3522	.2846	.2239	.1714	.1275
100.0	.5000	.4207	.3446	.2741	.2119	.1587	.1151

TABLE 22 (continued)

N	K $\Delta$ = .14	.16	.18	.20	.22	.24	.26
2.0	.1432	.1425	.1417	.1409	.1400	.1391	.1331
3.0	.1826	.1802	.1776	.1750	.1722	.1693	.1663
4.0	.2102	.2058	.2012	.1966	.1918	.1868	.1818
5.0	.2301	.2237	.2171	.2104	.2036	.1966	.1896
6.0	.2446	.2361	.2276	.2189	.2102	.2014	.1925
7.0	.2550	.2446	.2342	.2237	.2131	.2026	.1921
8.0	.2624	.2502	.2379	.2257	.2135	.2014	.1895
9.0	.2674	.2534	.2395	.2257	.2120	.1985	.1854
10.0	.2705	.2549	.2394	.2242	.2092	.1945	.1803
15.0	.2692	.2470	.2256	.2051	.1855	.1669	.1494
20.0	.2549	.2286	.2036	.1803	.1585	.1385	.1201
25.0	.2372	.2082	.1813	.1556	.1342	.1140	.0961
30.0	.2195	.1889	.1610	.1359	.1136	.0940	.0770
35.0	.2028	.1713	.1430	.1181	.0963	.0777	.0619
40.0	.1875	.1555	.1273	.1028	.0820	.0645	.0500
45.0	.1736	.1414	.1135	.0898	.0700	.0537	.0406
50.0	.1610	.1289	.1015	.0786	.0599	.0448	.0330
60.0	.1391	.1076	.0816	.0607	.0442	.0315	.0220
70.0	.1207	.0903	.0660	.0471	.0328	.0223	.0148
75.0	.1127	.0829	.0595	.0416	.0284	.0188	.0122
80.0	.1052	.0762	.0537	.0368	.0245	.0159	.0100
90.0	.0921	.0645	.0439	.0289	.0184	.0114	.0068
100.0	.0808	.0548	.0359	.0224	.0139	.0082	.0047

TABLE 22 (continued)

N	KA= .28	.30	.32	.34	.36	.38	.40
2.0	.1370	.1358	.1346	.1333	.1320	.1305	.1290
3.0	.1633	.1601	.1568	.1535	.1500	.1465	.1429
4.0	.1767	.1715	.1662	.1608	.1554	.1500	.1445
5.0	.1826	.1755	.1684	.1612	.1541	.1471	.1400
6.0	.1837	.1749	.1662	.1576	.1491	.1407	.1325
7.0	.1818	.1715	.1615	.1516	.1420	.1326	.1235
8.0	.1778	.1663	.1552	.1443	.1339	.1238	.1141
9.0	.1725	.1601	.1480	.1364	.1253	.1148	.1047
10.0	.1665	.1532	.1405	.1283	.1168	.1059	.0957
15.0	.1331	.1179	.1039	.0911	.0794	.0689	.0594
20.0	.1035	.0886	.0753	.0635	.0532	.0443	.0366
25.0	.0802	.0665	.0546	.0444	.0358	.0286	.0227
30.0	.0624	.0501	.0398	.0312	.0243	.0187	.0142
35.0	.0488	.0379	.0292	.0221	.0166	.0123	.0090
40.0	.0383	.0289	.0215	.0158	.0114	.0081	.0057
45.0	.0302	.0221	.0159	.0113	.0079	.0054	.0036
50.0	.0239	.0169	.0118	.0081	.0055	.0036	.0023
60.0	.0150	.0101	.0066	.0042	.0026	.0016	.0010
70.0	.0096	.0060	.0037	.0022	.0013	.0007	.0004
75.0	.0077	.0047	.0028	.0016	.0009	.0005	.0003
80.0	.0061	.0036	.0021	.0012	.0006	.0003	.0002
90.0	.0040	.0022	.0012	.0006	.0003	.0002	.0001
100.0	.0026	.0013	.0007	.0004	.0002	.0001	.0000

TABLE 22 (continued)

N	KA= .42	.44	.46	.48	.50	.52	.54
2.0	.1274	.1258	.1241	.1223	.1204	.1185	.1165
3.0	.1392	.1355	.1317	.1279	.1240	.1201	.1162
4.0	.1390	.1335	.1281	.1226	.1172	.1119	.1066
5.0	.1331	.1263	.1195	.1130	.1065	.1002	.0941
6.0	.1245	.1167	.1091	.1018	.0947	.0880	.0815
7.0	.1148	.1064	.0983	.0906	.0832	.0763	.0697
8.0	.1049	.0961	.0878	.0799	.0726	.0657	.0593
9.0	.0953	.0863	.0780	.0702	.0630	.0563	.0502
10.0	.0862	.0773	.0691	.0615	.0545	.0481	.0424
15.0	.0510	.0435	.0369	.0312	.0261	.0218	.0181
20.0	.0300	.0244	.0198	.0159	.0126	.0100	.0079
25.0	.0178	.0139	.0107	.0082	.0062	.0047	.0035
30.0	.0107	.0080	.0059	.0043	.0031	.0022	.0015
35.0	.0065	.0046	.0033	.0023	.0015	.0010	.0007
40.0	.0039	.0027	.0018	.0012	.0008	.0005	.0003
45.0	.0024	.0016	.0010	.0006	.0004	.0002	.0001
50.0	.0015	.0009	.0006	.0003	.0002	.0001	.0001
60.0	.0006	.0003	.0002	.0001	.0001	.0000	.0000
70.0	.0002	.0001	.0001	.0000	.0000	.0000	.0000
75.0	.0001	.0001	.0000	.0000	.0000	.0000	.0000
80.0	.0001	.0000	.0000	.0000	.0000	.0000	.0000
90.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
100.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000

TABLE 22 (continued)

N	KA=	.56	.58	.60	.62	.64	.66	.68
2.0		.1144	.1123	.1102	.1079	.1057	.1033	.1010
3.0		.1122	.1083	.1044	.1004	.0965	.0926	.0888
4.0		.1014	.0963	.0913	.0864	.0816	.0769	.0724
5.0		.0882	.0825	.0770	.0717	.0666	.0618	.0572
6.0		.0753	.0694	.0638	.0585	.0535	.0489	.0445
7.0		.0635	.0577	.0523	.0473	.0426	.0383	.0343
8.0		.0533	.0478	.0427	.0380	.0338	.0299	.0264
9.0		.0445	.0394	.0347	.0305	.0267	.0233	.0203
10.0		.0371	.0324	.0282	.0245	.0211	.0182	.0156
15.0		.0150	.0123	.0100	.0081	.0066	.0053	.0042
20.0		.0061	.0047	.0036	.0028	.0021	.0016	.0012
25.0		.0026	.0019	.0013	.0010	.0007	.0005	.0003
30.0		.0011	.0007	.0005	.0003	.0002	.0002	.0001
35.0		.0005	.0003	.0002	.0001	.0001	.0000	.0000
40.0		.0002	.0001	.0001	.0000	.0000	.0000	.0000
45.0		.0001	.0000	.0000	.0000	.0000	.0000	.0000
50.0		.0000	.0000	.0000	.0000	.0000	.0000	.0000
60.0		.0000	.0000	.0000	.0000	.0000	.0000	.0000
70.0		.0000	.0000	.0000	.0000	.0000	.0000	.0000
75.0		.0000	.0000	.0000	.0000	.0000	.0000	.0000
80.0		.0000	.0000	.0000	.0000	.0000	.0000	.0000
90.0		.0000	.0000	.0000	.0000	.0000	.0000	.0000
100.0		.0000	.0000	.0000	.0000	.0000	.0000	.0000

TABLE 22 (continued)

N	KA= .70	.72	.74	.76	.78	.80	.82
2.0	.0986	.0961	.0937	.0912	.0887	.0862	.0836
3.0	.0850	.0812	.0775	.0739	.0704	.0669	.0635
4.0	.0681	.0638	.0598	.0559	.0521	.0486	.0451
5.0	.0528	.0487	.0447	.0411	.0376	.0343	.0313
6.0	.0404	.0366	.0331	.0298	.0268	.0240	.0215
7.0	.0307	.0273	.0243	.0215	.0190	.0167	.0147
8.0	.0232	.0203	.0178	.0155	.0135	.0117	.0101
9.0	.0175	.0151	.0130	.0112	.0095	.0081	.0069
10.0	.0133	.0113	.0096	.0081	.0068	.0057	.0047
15.0	.0033	.0026	.0021	.0016	.0013	.0010	.0007
20.0	.0009	.0006	.0005	.0003	.0002	.0002	.0001
25.0	.0002	.0002	.0001	.0001	.0000	.0000	.0000
30.0	.0001	.0000	.0000	.0000	.0000	.0000	.0000
35.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
40.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
45.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
50.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
60.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
70.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
75.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
80.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
90.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
100.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000



TABLE 22 (continued)

N	KA= .84	.86	.88	.90	.92	.94	.96
2.0	.0811	.0785	.0760	.0734	.0709	.0684	.0659
3.0	.0602	.0569	.0538	.0508	.0479	.0450	.0423
4.0	.0419	.0388	.0359	.0331	.0305	.0281	.0258
5.0	.0285	.0258	.0234	.0212	.0191	.0172	.0154
6.0	.0192	.0171	.0152	.0134	.0119	.0105	.0092
7.0	.0129	.0113	.0098	.0085	.0074	.0064	.0055
8.0	.0087	.0074	.0064	.0054	.0046	.0039	.0033
9.0	.0058	.0049	.0041	.0035	.0029	.0024	.0020
10.0	.0039	.0033	.0027	.0022	.0018	.0015	.0012
15.0	.0006	.0004	.0003	.0002	.0002	.0001	.0001
20.0	.0001	.0001	.0000	.0000	.0000	.0000	.0000
25.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
30.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
35.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
40.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
45.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
50.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
60.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
70.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
75.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
80.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
90.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
100.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000

TABLE 22 (continued)

N	KA = .98	1.00	1.02	1.04	1.06	1.08	1.10
2.0	.0634	.0610	.0586	.0562	.0539	.0516	.0494
3.0	.0397	.0372	.0348	.0325	.0303	.0283	.0263
4.0	.0236	.0216	.0197	.0180	.0164	.0149	.0135
5.0	.0138	.0124	.0110	.0098	.0087	.0077	.0069
6.0	.0081	.0071	.0062	.0054	.0047	.0040	.0035
7.0	.0047	.0040	.0035	.0029	.0025	.0021	.0018
8.0	.0028	.0023	.0019	.0016	.0014	.0011	.0009
9.0	.0016	.0013	.0011	.0009	.0007	.0006	.0005
10.0	.0010	.0008	.0006	.0005	.0004	.0003	.0003
15.0	.0001	.0001	.0000	.0000	.0000	.0000	.0000
20.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
25.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
30.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
35.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
40.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
45.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
50.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
60.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
70.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
75.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
80.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
90.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
100.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000

TABLE 23  
TABLE OF THE JOINT DISTRIBUTION OF  $\bar{X}$  AND  $X(N)$

PO = .090

N	KA = .00	.02	.04	.06	.08	.10	.12
2.0	.1634	.1629	.1623	.1617	.1611	.1604	.1596
3.0	.2169	.2149	.2127	.2105	.2081	.2056	.2030
4.0	.2589	.2551	.2511	.2469	.2425	.2380	.2332
5.0	.2932	.2874	.2814	.2751	.2686	.2620	.2551
6.0	.3218	.3139	.3058	.2975	.2889	.2800	.2710
7.0	.3459	.3360	.3258	.3153	.3046	.2936	.2825
8.0	.3663	.3544	.3422	.3297	.3169	.3039	.2907
9.0	.3838	.3700	.3557	.3412	.3264	.3114	.2963
10.0	.3989	.3831	.3669	.3504	.3337	.3169	.2999
15.0	.4485	.4240	.3992	.3742	.3493	.3246	.3002
20.0	.4733	.4417	.4100	.3784	.3472	.3168	.2872
25.0	.4860	.4486	.4114	.3746	.3386	.3039	.2707
30.0	.4926	.4505	.4086	.3676	.3279	.2899	.2540
35.0	.4961	.4498	.4041	.3596	.3167	.2761	.2382
40.0	.4979	.4481	.3990	.3513	.3058	.2631	.2237
45.0	.4989	.4458	.3936	.3455	.2955	.2510	.2103
50.0	.4994	.4433	.3883	.3355	.2857	.2397	.1980
60.0	.4998	.4383	.3783	.3210	.2677	.2193	.1763
70.0	.4999	.4335	.3689	.3078	.2516	.2014	.1577
75.0	.5000	.4312	.3645	.3017	.2442	.1932	.1493
80.0	.5000	.4290	.3603	.2957	.2371	.1855	.1416
90.0	.5000	.4248	.3522	.2846	.2239	.1714	.1275
100.0	.5000	.4207	.3446	.2743	.2119	.1587	.1151

TABLE 23 (continued)

N	KA= .14	.16	.18	.20	.22	.24	.26
2.0	.1588	.1579	.1570	.1560	.1549	.1537	.1525
3.0	.2003	.1974	.1944	.1914	.1881	.1848	.1814
4.0	.2284	.2234	.2182	.2129	.2074	.2019	.1962
5.0	.2480	.2408	.2334	.2259	.2183	.2106	.2028
6.0	.2618	.2524	.2429	.2333	.2236	.2139	.2043
7.0	.2712	.2598	.2483	.2367	.2252	.2138	.2024
8.0	.2774	.2641	.2507	.2374	.2242	.2112	.1984
9.0	.2812	.2660	.2510	.2361	.2214	.2070	.1929
10.0	.2831	.2663	.2497	.2334	.2174	.2018	.1867
15.0	.2764	.2533	.2310	.2096	.1893	.1701	.1520
20.0	.2588	.2318	.2063	.1824	.1602	.1398	.1211
25.0	.2393	.2098	.1826	.1576	.1349	.1145	.0964
30.0	.2205	.1896	.1616	.1363	.1139	.0942	.0771
35.0	.2033	.1716	.1433	.1182	.0965	.0778	.0620
40.0	.1878	.1557	.1274	.1029	.0820	.0645	.0500
45.0	.1738	.1415	.1136	.0898	.0700	.0537	.0406
50.0	.1611	.1289	.1015	.0786	.0599	.0448	.0330
60.0	.1391	.1076	.0816	.0607	.0442	.0315	.0220
70.0	.1207	.0903	.0660	.0471	.0328	.0223	.0148
75.0	.1127	.0829	.0595	.0416	.0284	.0188	.0122
80.0	.1052	.0762	.0537	.0368	.0245	.0159	.0100
90.0	.0921	.0645	.0439	.0289	.0184	.0114	.0068
100.0	.0808	.0548	.0359	.0226	.0139	.0082	.0047

TABLE 23 (continued)

N	KA= .28	.30	.32	.34	.36	.38	.40
2.0	.1512	.1498	.1484	.1468	.1452	.1435	.1417
3.0	.1778	.1742	.1705	.1666	.1627	.1587	.1546
4.0	.1904	.1846	.1786	.1726	.1666	.1605	.1545
5.0	.1950	.1871	.1792	.1714	.1636	.1558	.1482
6.0	.1946	.1850	.1755	.1661	.1569	.1478	.1390
7.0	.1911	.1801	.1692	.1586	.1483	.1383	.1286
8.0	.1858	.1735	.1616	.1500	.1389	.1282	.1180
9.0	.1793	.1660	.1533	.1410	.1293	.1182	.1077
10.0	.1721	.1581	.1447	.1320	.1200	.1086	.0980
15.0	.1352	.1196	.1053	.0922	.0803	.0696	.0599
20.0	.1043	.0892	.0757	.0638	.0535	.0445	.0367
25.0	.0805	.0666	.0547	.0445	.0359	.0287	.0227
30.0	.0625	.0501	.0398	.0313	.0243	.0187	.0142
35.0	.0488	.0380	.0292	.0221	.0166	.0123	.0090
40.0	.0383	.0289	.0215	.0158	.0114	.0081	.0057
45.0	.0302	.0221	.0159	.0113	.0079	.0054	.0036
50.0	.0239	.0169	.0118	.0081	.0055	.0036	.0023
60.0	.0150	.0101	.0066	.0042	.0026	.0016	.0010
70.0	.0096	.0060	.0037	.0022	.0013	.0007	.0004
75.0	.0077	.0047	.0028	.0016	.0009	.0005	.0003
80.0	.0061	.0036	.0021	.0012	.0006	.0003	.0002
90.0	.0040	.0022	.0012	.0006	.0003	.0002	.0001
100.0	.0026	.0013	.0007	.0003	.0002	.0001	.0000

TABLE 23 (continued)

N	KA= .42	.44	.46	.48	.50	.52	.54
2.0	.1399	.1379	.1359	.1338	.1316	.1294	.1271
3.0	.1504	.1462	.1420	.1376	.1333	.1289	.1246
4.0	.1484	.1423	.1363	.1303	.1243	.1185	.1127
5.0	.1406	.1331	.1259	.1187	.1118	.1050	.0984
6.0	.1303	.1220	.1138	.1060	.0985	.0913	.0844
7.0	.1193	.1103	.1018	.0936	.0859	.0786	.0717
8.0	.1083	.0990	.0903	.0821	.0744	.0672	.0606
9.0	.0978	.0885	.0798	.0717	.0643	.0574	.0510
10.0	.0881	.0789	.0704	.0625	.0554	.0489	.0429
15.0	.0514	.0438	.0371	.0313	.0263	.0219	.0182
20.0	.0301	.0245	.0198	.0159	.0127	.0100	.0079
25.0	.0179	.0139	.0107	.0082	.0062	.0047	.0035
30.0	.0107	.0080	.0059	.0044	.0031	.0022	.0015
35.0	.0065	.0046	.0037	.0025	.0015	.0010	.0007
40.0	.0040	.0027	.0018	.0012	.0008	.0005	.0003
45.0	.0024	.0016	.0010	.0006	.0004	.0002	.0001
50.0	.0015	.0009	.0006	.0003	.0002	.0001	.0001
60.0	.0006	.0003	.0002	.0001	.0001	.0000	.0000
70.0	.0002	.0001	.0001	.0000	.0000	.0000	.0000
75.0	.0001	.0001	.0000	.0000	.0000	.0000	.0000
80.0	.0001	.0000	.0000	.0000	.0000	.0000	.0000
90.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
100.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000



TABLE 23 (continued)

N	KA=	.56	.58	.60	.62	.64	.66	.68
2.0		.1247	.1223	.1198	.1173	.1147	.1120	.1093
3.0		.1202	.1158	.1114	.1071	.1028	.0985	.0942
4.0		.1070	.1015	.0960	.0907	.0856	.0806	.0757
5.0		.0921	.0860	.0801	.0745	.0691	.0640	.0591
6.0		.0779	.0717	.0658	.0602	.0550	.0501	.0456
7.0		.0652	.0592	.0536	.0483	.0435	.0390	.0349
8.0		.0544	.0487	.0435	.0387	.0343	.0303	.0267
9.0		.0452	.0400	.0352	.0309	.0270	.0235	.0204
10.0		.0376	.0328	.0285	.0247	.0213	.0183	.0157
15.0		.0150	.0123	.0101	.0082	.0066	.0053	.0042
20.0		.0061	.0047	.0036	.0028	.0021	.0016	.0012
25.0		.0026	.0019	.0013	.0010	.0007	.0005	.0003
30.0		.0011	.0007	.0005	.0003	.0002	.0002	.0001
35.0		.0005	.0003	.0002	.0001	.0001	.0000	.0000
40.0		.0002	.0001	.0001	.0000	.0000	.0000	.0000
45.0		.0001	.0000	.0000	.0000	.0000	.0000	.0000
50.0		.0000	.0000	.0000	.0000	.0000	.0000	.0000
60.0		.0000	.0000	.0000	.0000	.0000	.0000	.0000
70.0		.0000	.0000	.0000	.0000	.0000	.0000	.0000
75.0		.0000	.0000	.0000	.0000	.0000	.0000	.0000
80.0		.0000	.0000	.0000	.0000	.0000	.0000	.0000
90.0		.0000	.0000	.0000	.0000	.0000	.0000	.0000
100.0		.0000	.0000	.0000	.0000	.0000	.0000	.0000

TABLE 23 (continued)

N	KA= .70	.72	.74	.76	.78	.80	.82
2.0	.1066	.1038	.1011	.0983	.0954	.0926	.0898
3.0	.0901	.0860	.0819	.0780	.0741	.0703	.0667
4.0	.0710	.0665	.0622	.0581	.0541	.0503	.0467
5.0	.0545	.0501	.0460	.0422	.0386	.0352	.0320
6.0	.0413	.0374	.0337	.0304	.0273	.0244	.0218
7.0	.0312	.0277	.0246	.0218	.0192	.0169	.0148
8.0	.0235	.0206	.0180	.0156	.0136	.0117	.0101
9.0	.0177	.0153	.0131	.0112	.0096	.0082	.0069
10.0	.0133	.0113	.0096	.0081	.0068	.0057	.0047
15.0	.0034	.0026	.0021	.0016	.0013	.0010	.0007
20.0	.0009	.0006	.0005	.0003	.0002	.0002	.0001
25.0	.0002	.0002	.0001	.0001	.0000	.0000	.0000
30.0	.0001	.0000	.0000	.0000	.0000	.0000	.0000
35.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
40.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
45.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
50.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
60.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
70.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
75.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
80.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
90.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
100.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000

TABLE 23 (continued)

N	KA= .84	.86	.88	.90	.92	.94	.96
2.0	.0869	.0841	.0812	.0784	.0756	.0728	.0701
3.0	.0631	.0596	.0563	.0530	.0499	.0469	.0440
4.0	.0433	.0400	.0369	.0340	.0313	.0288	.0264
5.0	.0291	.0264	.0238	.0215	.0194	.0174	.0156
6.0	.0194	.0173	.0153	.0136	.0120	.0106	.0093
7.0	.0130	.0113	.0099	.0086	.0074	.0064	.0055
8.0	.0087	.0075	.0064	.0054	.0046	.0039	.0033
9.0	.0058	.0049	.0041	.0035	.0029	.0024	.0020
10.0	.0039	.0033	.0027	.0022	.0018	.0015	.0012
15.0	.0006	.0004	.0003	.0002	.0002	.0001	.0001
20.0	.0001	.0001	.0000	.0000	.0000	.0000	.0000
25.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
30.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
35.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
40.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
45.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
50.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
60.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
70.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
75.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
80.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
90.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
100.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000

TABLE 23 (continued)

N	KA= .98	1.00	1.02	1.04	1.06	1.08	1.10
2.0	.0674	.0647	.0620	.0595	.0569	.0544	.0520
3.0	.0412	.0385	.0360	.0336	.0313	.0291	.0270
4.0	.0241	.0220	.0201	.0183	.0166	.0151	.0137
5.0	.0140	.0125	.0111	.0099	.0088	.0078	.0069
6.0	.0081	.0071	.0062	.0054	.0047	.0041	.0035
7.0	.0047	.0041	.0035	.0030	.0025	.0021	.0018
8.0	.0028	.0023	.0020	.0016	.0014	.0011	.0009
9.0	.0016	.0013	.0011	.0009	.0007	.0006	.0005
10.0	.0010	.0008	.0006	.0005	.0004	.0003	.0003
15.0	.0001	.0001	.0000	.0000	.0000	.0000	.0000
20.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
25.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
30.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
35.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
40.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
45.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
50.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
60.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
70.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
75.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
80.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
90.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
100.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000

TABLE 24  
TABLE OF THE JOINT DISTRIBUTION OF  $\bar{X}$  AND  $X(N)$   
PD= .100

N	KA= .00	.02	.04	.06	.08	.10	.12
2.0	.1797	.1790	.1783	.1776	.1768	.1759	.1750
3.0	.2363	.2339	.2314	.2288	.2260	.2231	.2201
4.0	.2798	.2754	.2709	.2661	.2612	.2560	.2507
5.0	.3148	.3082	.3015	.2944	.2872	.2798	.2721
6.0	.3433	.3346	.3256	.3163	.3068	.2971	.2871
7.0	.3670	.3561	.3449	.3334	.3216	.3096	.2975
8.0	.3867	.3737	.3604	.3467	.3328	.3187	.3044
9.0	.4033	.3883	.3728	.3571	.3411	.3250	.3088
10.0	.4174	.4003	.3828	.3651	.3472	.3292	.3112
15.0	.4615	.4357	.4096	.3835	.3574	.3317	.3064
20.0	.4817	.4490	.4167	.3838	.3518	.3205	.2903
25.0	.4912	.4530	.4150	.3776	.3411	.3058	.2722
30.0	.4957	.4530	.4107	.3692	.3292	.2909	.2547
35.0	.4979	.4513	.4053	.3604	.3174	.2766	.2386
40.0	.4990	.4489	.3996	.3518	.3062	.2634	.2238
45.0	.4995	.4463	.3940	.3435	.2956	.2511	.2104
50.0	.4997	.4436	.3885	.3356	.2858	.2397	.1981
60.0	.4999	.4384	.3783	.3210	.2677	.2193	.1763
70.0	.5000	.4335	.3689	.3078	.2516	.2014	.1577
75.0	.5000	.4312	.3645	.3017	.2442	.1932	.1493
80.0	.5000	.4290	.3603	.2988	.2371	.1855	.1416
90.0	.5000	.4248	.3522	.2846	.2239	.1714	.1275
100.0	.5000	.4207	.3446	.2745	.2119	.1587	.1151

TABLE 24 (continued)

N	KA = .14	.16	.18	.20	.22	.24	.26
2.0	.1740	.1729	.1718	.1706	.1693	.1679	.1665
3.0	.2170	.2137	.2103	.2068	.2031	.1994	.1955
4.0	.2452	.2396	.2338	.2279	.2218	.2156	.2093
5.0	.2643	.2563	.2481	.2398	.2314	.2230	.2144
6.0	.2770	.2667	.2563	.2459	.2353	.2248	.2143
7.0	.2852	.2728	.2603	.2479	.2355	.2231	.2110
8.0	.2901	.2757	.2614	.2472	.2331	.2192	.2056
9.0	.2926	.2764	.2604	.2446	.2290	.2138	.1989
10.0	.2932	.2754	.2579	.2406	.2238	.2075	.1916
15.0	.2817	.2578	.2348	.2128	.1920	.1723	.1538
20.0	.2614	.2339	.2079	.1837	.1612	.1405	.1217
25.0	.2405	.2108	.1833	.1581	.1353	.1148	.0966
30.0	.2211	.1900	.1618	.1355	.1140	.0943	.0772
35.0	.2036	.1718	.1434	.1165	.0965	.0778	.0620
40.0	.1879	.1557	.1274	.1029	.0820	.0645	.0500
45.0	.1738	.1415	.1136	.0899	.0700	.0537	.0406
50.0	.1611	.1289	.1015	.0786	.0599	.0448	.0330
60.0	.1391	.1076	.0816	.0607	.0442	.0315	.0220
70.0	.1207	.0903	.0660	.0471	.0328	.0223	.0148
75.0	.1107	.0829	.0595	.0416	.0284	.0188	.0122
80.0	.1052	.0762	.0537	.0368	.0245	.0159	.0100
90.0	.0921	.0645	.0439	.0289	.0184	.0114	.0063
100.0	.0808	.0548	.0359	.0218	.0139	.0082	.0047



TABLE 24 (continued)

N	KA= .20	.30	.32	.34	.36	.38	.40
2.0	.1649	.1633	.1616	.1598	.1579	.1559	.1538
3.0	.1915	.1873	.1831	.1788	.1744	.1699	.1653
4.0	.2029	.1964	.1898	.1832	.1766	.1699	.1632
5.0	.2059	.1973	.1887	.1802	.1717	.1633	.1551
6.0	.2039	.1935	.1833	.1732	.1634	.1537	.1443
7.0	.1989	.1871	.1756	.1643	.1534	.1428	.1326
8.0	.1922	.1793	.1667	.1545	.1428	.1317	.1210
9.0	.1846	.1707	.1573	.1445	.1324	.1208	.1099
10.0	.1764	.1618	.1479	.1347	.1223	.1106	.0996
15.0	.1367	.1208	.1062	.0929	.0808	.0700	.0603
20.0	.1047	.0895	.0759	.0640	.0531	.0445	.0368
25.0	.0806	.0667	.0548	.0445	.0359	.0287	.0227
30.0	.0625	.0502	.0398	.0313	.0243	.0187	.0142
35.0	.0488	.0380	.0292	.0221	.0166	.0123	.0090
40.0	.0383	.0289	.0215	.0158	.0114	.0081	.0057
45.0	.0302	.0221	.0159	.0113	.0079	.0054	.0036
50.0	.0239	.0169	.0118	.0081	.0055	.0036	.0023
60.0	.0150	.0101	.0066	.0042	.0026	.0016	.0010
70.0	.0096	.0060	.0037	.0022	.0013	.0007	.0004
75.0	.0077	.0047	.0028	.0016	.0009	.0005	.0003
80.0	.0061	.0036	.0021	.0012	.0006	.0003	.0002
90.0	.0040	.0022	.0012	.0006	.0003	.0002	.0001
100.0	.0026	.0013	.0007	.0003	.0002	.0001	.0000

TABLE 24 (continued)

N	KA= .42	.44	.46	.48	.50	.52	.54
2.0	.1517	.1494	.1471	.1447	.1422	.1397	.1371
3.0	.1607	.1560	.1513	.1465	.1417	.1369	.1320
4.0	.1566	.1500	.1434	.1369	.1305	.1242	.1179
5.0	.1469	.1389	.1311	.1235	.1161	.1089	.1019
6.0	.1351	.1262	.1176	.1094	.1015	.0939	.0867
7.0	.1228	.1134	.1045	.0960	.0879	.0803	.0732
8.0	.1108	.1012	.0922	.0837	.0758	.0684	.0615
9.0	.0997	.0901	.0811	.0728	.0651	.0581	.0516
10.0	.0894	.0800	.0713	.0633	.0560	.0493	.0433
15.0	.0516	.0440	.0373	.0314	.0263	.0220	.0182
20.0	.0301	.0245	.0198	.0159	.0127	.0100	.0079
25.0	.0179	.0139	.0107	.0082	.0062	.0047	.0035
30.0	.0107	.0080	.0059	.0043	.0031	.0022	.0015
35.0	.0065	.0046	.0033	.0023	.0015	.0010	.0007
40.0	.0040	.0027	.0018	.0012	.0008	.0005	.0003
45.0	.0024	.0016	.0010	.0006	.0004	.0002	.0001
50.0	.0015	.0009	.0006	.0003	.0002	.0001	.0001
60.0	.0006	.0003	.0002	.0001	.0001	.0000	.0000
70.0	.0002	.0001	.0001	.0000	.0000	.0000	.0000
75.0	.0001	.0001	.0000	.0000	.0000	.0000	.0000
80.0	.0001	.0000	.0000	.0000	.0000	.0000	.0000
90.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
100.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000

TABLE 24 (continued)

N	KA= .56	.58	.60	.62	.64	.66	.68
2.0	.1344	.1316	.1288	.1259	.1230	.1200	.1170
3.0	.1272	.1224	.1176	.1129	.1082	.1035	.0989
4.0	.1118	.1059	.1000	.0944	.0889	.0836	.0784
5.0	.0952	.0888	.0826	.0767	.0710	.0657	.0606
6.0	.0799	.0734	.0673	.0615	.0561	.0511	.0464
7.0	.0665	.0603	.0545	.0491	.0441	.0395	.0353
8.0	.0552	.0493	.0440	.0391	.0346	.0306	.0269
9.0	.0457	.0404	.0355	.0311	.0272	.0237	.0205
10.0	.0379	.0330	.0287	.0248	.0214	.0184	.0157
15.0	.0150	.0123	.0101	.0082	.0066	.0053	.0042
20.0	.0061	.0047	.0036	.0028	.0021	.0016	.0012
25.0	.0026	.0019	.0013	.0010	.0007	.0005	.0003
30.0	.0011	.0007	.0005	.0003	.0002	.0002	.0001
35.0	.0005	.0003	.0002	.0001	.0001	.0000	.0000
40.0	.0002	.0001	.0001	.0000	.0000	.0000	.0000
45.0	.0001	.0000	.0000	.0000	.0000	.0000	.0000
50.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
60.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
70.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
75.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
80.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
90.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
100.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000

TABLE 24 (continued)

N	KA= .70	.72	.74	.76	.78	.80	.82
2.0	.1139	.1109	.1078	.1046	.1015	.0984	.0952
3.0	.0944	.0900	.0857	.0814	.0773	.0732	.0693
4.0	.0735	.0687	.0641	.0598	.0556	.0516	.0478
5.0	.0558	.0513	.0470	.0430	.0392	.0358	.0325
6.0	.0420	.0379	.0342	.0307	.0276	.0247	.0220
7.0	.0315	.0280	.0248	.0220	.0194	.0170	.0149
8.0	.0236	.0207	.0181	.0157	.0136	.0118	.0102
9.0	.0178	.0153	.0132	.0113	.0096	.0082	.0069
10.0	.0134	.0114	.0096	.0081	.0068	.0057	.0048
15.0	.0034	.0026	.0021	.0016	.0013	.0010	.0007
20.0	.0009	.0006	.0005	.0003	.0002	.0002	.0001
25.0	.0002	.0002	.0001	.0001	.0000	.0000	.0000
30.0	.0001	.0000	.0000	.0000	.0000	.0000	.0000
35.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
40.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
45.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
50.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
60.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
70.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
75.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
80.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
90.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
100.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000

TABLE 24 (continued)

N	KA= .84	.86	.88	.90	.92	.94	.96
2.0	.0921	.0390	.0859	.0828	.0797	.0767	.0737
3.0	.0655	.0618	.0582	.0548	.0515	.0483	.0453
4.0	.0443	.0409	.0377	.0347	.0319	.0293	.0268
5.0	.0295	.0267	.0241	.0218	.0196	.0176	.0158
6.0	.0196	.0174	.0154	.0137	.0120	.0106	.0093
7.0	.0131	.0114	.0099	.0086	.0074	.0064	.0055
8.0	.0087	.0075	.0064	.0054	.0046	.0039	.0033
9.0	.0059	.0049	.0041	.0035	.0029	.0024	.0020
10.0	.0039	.0033	.0027	.0022	.0018	.0015	.0012
15.0	.0006	.0004	.0003	.0002	.0002	.0001	.0001
20.0	.0001	.0001	.0000	.0000	.0000	.0000	.0000
25.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
30.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
35.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
40.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
45.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
50.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
60.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
70.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
75.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
80.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
90.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
100.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000

TABLE 24 (continued)

N	KA= .93	1.00	1.02	1.04	1.06	1.08	1.10
2.0	.0707	.0678	.0650	.0622	.0594	.0567	.0541
3.0	.0424	.0396	.0369	.0344	.0320	.0297	.0276
4.0	.0245	.0223	.0204	.0185	.0168	.0152	.0138
5.0	.0141	.0126	.0112	.0100	.0089	.0078	.0069
6.0	.0082	.0071	.0062	.0054	.0047	.0041	.0035
7.0	.0048	.0041	.0035	.0030	.0025	.0021	.0018
8.0	.0028	.0023	.0020	.0016	.0014	.0011	.0009
9.0	.0016	.0013	.0011	.0009	.0007	.0006	.0005
10.0	.0010	.0008	.0006	.0005	.0004	.0003	.0003
15.0	.0001	.0001	.0000	.0000	.0000	.0000	.0000
20.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
25.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
30.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
35.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
40.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
45.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
50.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
60.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
70.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
75.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
80.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
90.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000
100.0	.0000	.0000	.0000	.0000	.0000	.0000	.0000



## 5. Summary

In this paper, tables of the joint distribution of  $\bar{X}$  and  $X_{(n)}$  for a random sample from the standard normal distribution are presented for a variables sampling inspection procedure which guarantees acceptance of perfectly screened lots. The lot is characterized by a single quality characteristic. It is assumed that this quality characteristic has a normal density function with known variance. Tables of truncated normal distribution required to compute tables of the joint distribution of  $\bar{X}$  and  $X_{(n)}$  are also presented.

The two sets of tables are also used to show how operating characteristic curves may be computed. Sample size is shown to affect the existence of certain levels of significance. For small sample size ( $n < 10$ ), certain levels of significance do not exist for tests of hypotheses concerning truncated normal distributions.

This paper has covered only one distribution of the quality characteristic and only a single specification limit. The next step would be to produce similar results for a quality characteristic distributed normally with known variance in case of two specification limits, an upper and a lower specification limit. In this particular case, it has been shown that a test procedure is to reject the hypothesis,  $H: p \leq p_0$ , if and only if, 1.)  $X_{(1)} < L$ , or  $X_{(n)} > U$ , 2.) and  $\bar{X} > K(\alpha)$ . Of course other distributions of the quality characteristic should also be investigated.

## BIBLIOGRAPHY

1. Cramer, H., Mathematical Methods of Statistics, Princeton University Press, 1954.
2. Gnedenko, B.V., and A. N. Kolomogorov, Limit Distributions for Sum of Independent Random Variables, Addison - Wesley, 1954.
3. Lieberman, G. J. and G. Resnikoff, "Sampling Plans for Inspection by Variables", Journal of the American Statistical Association, 50: 457-516, June, 1955.
4. Woods, W. M., "Variables Sampling Inspection Procedures which Guarantee Acceptance of Perfectly Screened Lots", Applied Mathematics and Statistics Laboratories Technical Report No. 47, Stanford University, California, 1960.

# APPENDIX I

## EDGEWORTH SERIES

The tables for the truncated normal distributions were computed using the Edgeworth series. This series is nearly an ideal asymptotic expansion for the distribution of  $\sqrt{n} \bar{X}$ . Gnedenko - Kolmogorov [2] and Cramer [1] are references for detailed coverage of this expansion. The expansion is given by

$$F_n(Z) = \Phi(Z) - \frac{1}{3!} \frac{\lambda_3}{\sigma^3 \sqrt{n}} \Phi^{(3)}(Z) + \frac{1}{4!} \frac{\lambda_4}{n \sigma^4} \Phi^{(4)}(Z) + \frac{10}{6! n} \frac{\lambda_3^2}{\sigma^6} \Phi^{(6)}(Z) \\ - \frac{1}{5!} \frac{\lambda_5}{\sigma^5 n^{3/2}} \Phi^{(5)}(Z) - \frac{35}{7!} \frac{\lambda_3 \lambda_4}{n^{3/2} \sigma^7} \Phi^{(7)}(Z) - \frac{280}{9!} \frac{\lambda_3^3}{\sigma^9 n^{3/2}} \Phi^{(9)}(Z)$$

$$\text{where } Z = \frac{1}{\sigma \sqrt{n}} \sum_{i=1}^n (X_i - \mu).$$

$\Phi(Z)$  is equal to the area under a standard normal density function to the left of the abscissa,  $Z$ , and  $\Phi^{(i)}(Z)$  is the  $i$ -th derivative of the standard normal distribution function.

$X$  is a truncated normally distributed random variable with density function

$$f(x) = \frac{1}{\Phi(a)} \frac{1}{\sqrt{2\pi}} e^{-\frac{1}{2}x^2}, \quad -\infty < x < a$$

$\lambda_K$  is the  $k^{\text{th}}$  cumulant of  $X$ . The cumulants are functions of the moments of  $X$  about zero and are shown below:

$$\lambda_3 = \alpha_3 - 3\alpha_1\alpha_2 + 2\alpha_1^3$$

$$\lambda_4 = \alpha_4 - 3\alpha_2^2 - 4\alpha_1\alpha_3 + 12\alpha_1^2\alpha_2 - 6\alpha_1^4$$

$$\lambda_5 = \alpha_5 - 5\alpha_1\alpha_4 - 10\alpha_2\alpha_3 + 30\alpha_2^2\alpha_1 + 20\alpha_1^2\alpha_3 - 60\alpha_1^3\alpha_2 + 24\alpha_1^5$$

where  $E[X^i] = \alpha_i, i = 1, 2, \dots$ ,

$$\sigma = (\alpha_2 - \alpha_1^2)^{\frac{1}{2}} \text{ and } \alpha_1 = \mu.$$

Tables were computed using a CDC 1604 digital computer for  $K(\alpha) = 0.00(.02) 1.10, 23$  sample sizes and 12 truncation points.

thesJ95

Joint distribution of  $X$  and  $X(n)$  for a r



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